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ABSTRACT

The Annual Test Report, 1981-82 has been developed as a reference on the results of the California Achievement Tests (CAT) in the Montgomery County Public Schools (MCPS). The report contains several analyses of the results from the CAT administration in Grades 3, 5, 8, and 11. Overall countywide results are presented and they are also broken down by racial/ethnic and sex classifications. School results are presented in four forms: (1) average subtest scores, (2) total battery interquartile ranges, (3) long; tudinal trends (average score change for students tested in the same elementary school twice), and (4) nonlongitudinal trends (difference between average scores for students transferring into and out of each school). There are two appendices. The first one contains tables with detailed summary data. The second one is a glossary of technical testing terms which provides the definition, use(s), and some interpretive precautions to be observed for each term. (Author)



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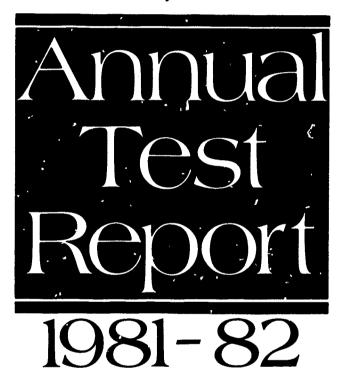
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MONTGOMERY COUNTY PUBLIC SCHOOLS ROCKVILLE, MARYLAND



EDWARD ANDREWS

Superintendent of Schools

Prepared by the Department of Educational Accountability



EXECUTIVE SUMMARY

The Annual Test Report 1981-82 has been developed to be a reference on the results of the California Achievement Tests (CAT) for the Montgomery County Public Schools. The CAT is administered in Grades 3, 5, and 8 under a state requirement and in Grade 11 under a local requirement. Some of the features of the report include:

- o Breakdowns of county test results by racial/ethnic groups, including a comparison of performance by MCPS black and Hispanic students with that of their counterparts in the national norm sample
- o Elementary school results broken down for students tested in a school in both Grades 3 and 5 and for students tested in those schools in only Grade 3 or Grade 5
- o Graphic presentations of both county and school data
- o A comparison of the California Achievement Tests (CAT), used for the first time in the 1980-81 school year, and the Iowa Tests of Basic Skills (ITBS), previously used for more than a decade.

Countywide Results

Performance by MCPS students on the CAT improved slightly from an already high level. This was shown by the fact that 77 percent of the MCPS students tested scored at or above the national norm average. This was a 1 percent increase from the previous year. Additionally, the MCPS average on the total test ranged from the 80th percentile in Grade 5 to the 75th percentile in Grade 11; a one-point increase at each end of the range. This consistently high performance across grades was in sharp contrast to declining scores that had been found on the ITBS from lower to higher grades. While the county averages were high, they probably would have been even higher, at least in Grade 3, if there were not a strong "ceiling effect" on some CAT subtests. This effect produced artifically low scores on these subtests because the test norms do not permit high achieving students to score as high as they should.

Performance by Racial/Ethnic Groups

The average scores for all major racial/ethnic groups in MCPS were at or above the national norm group average except for black students in Grade 11. Even in that case, the difference was not substantial. Scores in 1981 were generally higher than in 1980 for black and white students. The trends for Hispanic and Asian students were mixed across the grades.

The performance of white students in MCPS was substantially higher than that of MCPS Hispanic and black students. However, MCPS Hispanic and black students scored substantially higher than their counterparts nationally. Additionally, when compared to their counterparts nationally, MCPS Hispanic and black students did better than MCPS white students.

Asian students in MCPS scored slightly higher than whi a students in all grades except the eleventh where the two groups had the same average score.



Score Differences by Sex

Females scored slightly higher than males on the total test in all grades tested. Language skills is the only subject area in which females scored higher in all grades.



MONTGOMERY COUNTY PUBLIC SCHOOLS Rockville, Maryland

ANNUAL TEST REPORT

1981-82

September 1982

Edward Andrews
Superintendent of Schools



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INTRODUCTION

The Annual Test Report, 1981-82 has been developed as a reference on the results of the California Achievement Tests (CAT) in the Montgomery County Public Schools (MCPS). The report contains several analyses of the results from the CAT administration in Grades 3, 5, 8, and 11. Overall countywide results are presented and they are also broken down by racial/ethnic and sex classifications. School results are presented in four forms:

- 1. Average subtest scores
- 2. Total Battery interquartile ranges
- 3. Longitudinal trends (average score change for students tested in the same elementary school twice)
- 4. Nonlongitudinal trends (difference between average scores for students transferring into and out of each school)

There are two appendices. The first one contains tables with detailed summary data. The second one is a glossary of technical testing terms which provides the definition, use(s), and some interpretive precautions to be observed for each term.



DESCRIPTION OF CALIFORNIA ACHIEVEMENT TESTS

The California Achievement Tests (CAT) are standardized achievement tests required by the Maryland State Department of Education to be administered to all students in Grades 3, 5, and 8. Students in Grade 11 are given the CAT under a local requirement. The 1981-82 school year was the second year this new edition (1977 copyright) of the CAT was administered in MCPS. This test replaced the Iowa Tests of Basic Skills (ITBS) and Tests of Academic Progress (TAP), which had been given for the previous several years.

The CAT, like the ITBS and TAP, is a group-administered, norm-referenced test (NRT). Norm-referenced means that a student's scores are given interpretable meaning by being compared with the scores of a group of students. In the case of the CAT, this group is the nationwide sample on whom the test was normed in the 1976-77 school year. This comparison is most easily seen when results are reported as percentile ranks (PR). These scores are presented in the tables in this chapter because of their ease of interpretation. Also reported are Normal Curve Equivalent (NCE) scores. These are used to make comparisons across subtests and groups of students. A third type of score, reported in some tables, is the Scale Score (SS). This is included to provide data consistent with that to be reported by the Maryland State Department of Education.

The CAT measures five major content areas. Some of these contain more than one subtest. The content areas and their subtests follow:

Reading

Phonic Analysis (Grade 3 only) Structural Analysis (Grade 3 only) Reading Vocabulary Reading Comprehension

Spelling



^{1.} Percentile ranks indicate the percentage of students in the national norm group who scored lower than a given score. In the case of this report, the given score is the mean (average) of the county, of a group within the county (e.g., race, sex), or of a school. A more detailed discussion of statistical terms can be found in Appendix B.

^{2.} Normal Curve Equivalent scores are used for these comparisons because they are on an equal interval scale. This means that a change of X points is the same, no matter what the scores are. This is not true for other standardized scores such as percentile ranks. For example, on the percentile rank scale, the difference between 85 and 95 is much larger than the difference between 45 and 55. On the NCE scale, both of these differences represent the same amount of score increase. See Appendix B for a detailed discussion.

Language

Language Mechanics Language Expression

Mathematics

Mathematics Computation
Mathematics Concepts and Applications

Reference Skills (Grades 5, 8, and 11 only)



ANALYTIC CONSIDERATIONS

A tendency in analyzing test data is to compare results across grades and across years. When performing this kind of analysis it is necessary to consider potential interpretation problems that can prevent the use of the results for making judgements about program quality. These problems are created by:

- 1. Differences in the ability of the norm groups for the tests used at each grade level
- 2. Differences in the ability of the students tested in each grade each year
- 3. Differential degree of match between local curriculum and the content of the test at various grade levels

These problems are generally more serious when the results being compared are from two different test batteries, not just two levels within the same battery. Comparing different test batteries also adds another problem:

4. Differences in the question formats of each test

Differences in norm group ability. Since each test in each grade is normed on a different group of students, the ability of the various norm groups can play a role in interpreting standardized test results. The differences in the abilities of these norm groups mean that students taking the tests at different times and grade levels are being compared to different standards. For example, if test A was developed on a snarter group of students than was test B, a student needs to know more to get a high standardized score on test A than on test B. Thus, higher scores on test B could be a result of a student's being compared with a group that is not as smart; it would not necessarily be an indication of higher achievement.

Differences in ability of groups tested. Differences in the ability of the groups being tested each year can account for score increases and declines across years. Such score changes should be viewed as indications of changes in achievement level that are related to group or individual characteristics, not to program quality.

Test content/curriculum match. The match between standardized test content and any local curriculum is never complete. Differences in the degree of match for different tests or test levels mean that scores on the tests or levels may vary simply because students at one grade level are taught more of the skills measured by the test. Lower scores on one level of the test may not indicate a decline in achievement or quality of instruction but simply may reflect this difference in match.

Differences in question format. The way in which test materials are presented to a student can influence how well he/she performs. When the test used at each level is from the same battery, this format issue does not generally play a role. However, when results from different batteries are compared, question format can be important. Even when the subtests from the two batteries have the same or similar names, direct comparison of results can be clouded by format differences. The format differences between the CAT and ITBS are discussed below, organized by CAT subtests within major subject areas.



1. Reading

- a) Vocabulary (ITBS)/Reading Vocabulary (CAT)—The ITBS asks the student to find words that mean the same as a given word. The CAT contains some questions asking for the same meaning and some asking for the opposite meaning. It also has a few questions involving words with multimeanings. In these questions, a definition is provided and the student has to find the sentence in which the word is used with that definition.
- b) Reading Comprehension (ITBS)/Reading Comprehension (CAT)—The format is generally the same on both tests. Students are required to answer questions about passages they read.
- 2. Language Total--This section includes Spelling, Punctuation, Capitalization, and Language Usage on the ITBS. Spelling is not included in the CAT Language Total.
 - a) Punctuation and Capitalization (ITBS)/Language Mechanics (CAT)--Each test measures capitalization by asking the student to find a capitalization mistake in a sentence. However, punctuation is measured differently. The ITBS asks for the location of the wrong punctuation in a sentence; the CAT asks for selection of the correct punctuation to be inserted into a sentence.
 - b) Language Usage (ITBS)/Language Expression (CAT)--The ITBS asks students to find grammar mistakes in sentences. The CAT measures a variety of skills in this area including the identification of subject and verb, sentence structure, paragraph sequence, topic sentence, and clarity of expression.
- 3. Spelling (ITBS)/Spelling (CAT)--The ITBS asks the student to find an incorrectly spelled word in a list of words. The CAT asks the student to find an incorrectly spelled word in a sentence. Neither test asks the student to actually spell words and could not within the constraints of the optical scan format employed.
- 4. Math Total--On the ITBS the two subtests are Math Concepts and Math Problem Solving. On the CAT the subtests are Math Computation and Math Concepts and Applications.
 - a) Math Computation (CAT) -- There is nothing comparable on the ITBS.
 - b) Math Concepts and Math Problem Solving (ITBS)/Math Concepts and Application (CAT)--The CAT combines into one subtest the skills measured by the two separate subtests on the ITBS.
- 5. Composite (ITBS)/Total Battery (CAT)--While each of these can be considered an overall measure of achievement, they represent performance on different sets of skills. All of the differences cited above can influence results here. Additionally, the ITBS has three work study skills subtests included in the Composite. The CAT Reference Skills subtest, the part of the CAT most similar to the ITBS work study skills section, is not included in the Total Battery score.



Overall County Data

The major findings from analyses of countywide results from the administration of the California Achievement Tests in the Fall of 1981 are as follows:

- o Seventy-seven percent of the MCPS students rested scored at or above the national norm average on the Total Battery. This was an increase of 1 percent from 1980.
- o County average (mean) scores showed a slight increase from 1980 on the Total Battery.
- o Average scores were generally consistent across the four grades. This was also true in 1980 but differed from a declining pattern on the ITBS in previous years.
- o County averages on several subtests were artificially depressed because of the ceiling effect on those subtests.

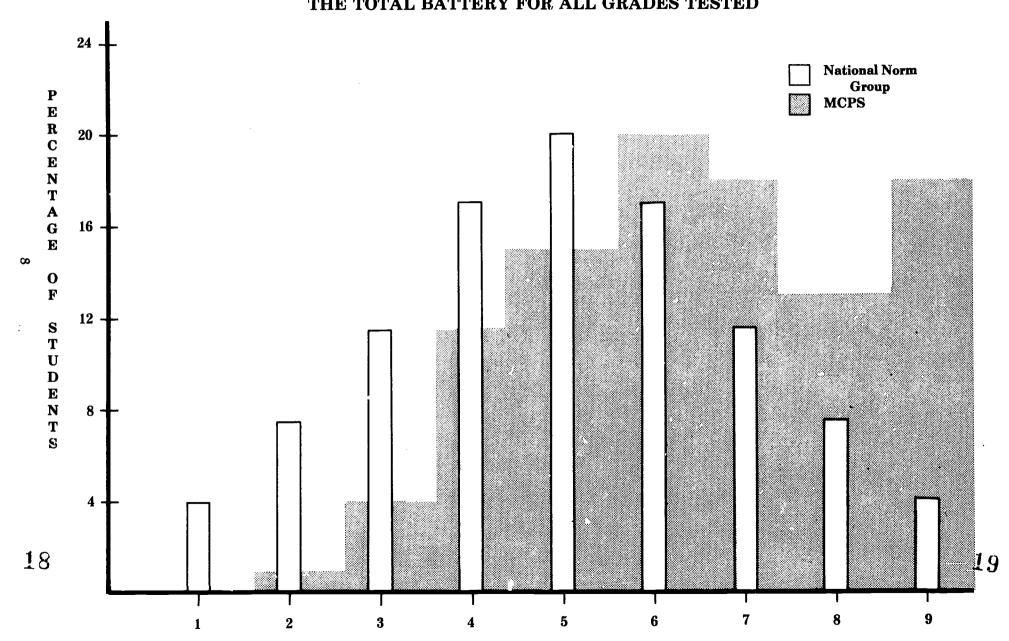
MCPS performance compared to national performance. The only national that is available to compare with MCPS results is from the national norm group. In that group 50 percent of the students scored at or above the average, i.e., 50th percentile. The percentage of students scoring at or above this point on the Total Battery in MCPS averaged 77 across all grades tested and ranged from 79 in Grade 5 to 75 in Grade 11. This high level of performance is shown in Figure 1.1 where the percentage of students scoring at each stanine is shown for the national group and for the 4 MCPS grades The national stanine distribution is symmetrical with equal percentages falling above and the below the average of 5. The distribution for MCPS is very different, with the percentage scoring in the high stanines (i.e., 7, 8, and 9) much higher than the national distribution. For example, 18 percent of the MCPS students scored at the 9th stanine compared to 4 percent nationally. The pattern is reversed for the low stanines, with only 1 percent of the MCPS students scoring in the bottom 2 stanines.

^{4.} It should be noted that the norm group is not necessarily representative of overall national performance. Test publishers generally have to use whatever districts will agree to participate in norming samples. There is no guarantee that they have been able to include the proper proportion of high, middle, and low scoring students. That is one of the reasons for potential problem number 1 discussed in the "Analytic Considerations" section above.



^{3.} A ceiling effect is present when it is not possible for a student to score at the maximum (99th) percentile even if he/she answers all questions correctly. This effect also exists if only one or two careless errors can reduce a student's standardized score substantially, e.g., from stanine 9 to 6 or 7. This is caused by a test being too easy. On such a test, many people achieve a perfect or near perfect score, making a range of percentile ranks possible. When this happens, the conventional norming procedure is to assign the middle percentile rank to the perfect score. For example, on the California Achievement Tests, Level 13 Phonic Analysis subtest, 8 percent of the norm population got a perfect score. According to statistical theory these students could be anywhere from the 92nd to 99th percentile. The middle percentile rank, 96, was thus assigned to the perfect score.

FIGURE 1.1
CALIFORNIA ACHIEVEMENT TESTS, FALL 1981
DISTRIBUTION OF STANINE SCORES ON
THE TOTAL BATTERY FOR ALL GRADES TESTED



STANINE



The pattern of results does not change very much across the major subjects, with 78 percent being at or above the national average in language and math and 77 percent meeting that criterion in reading. Table Al in the Appendix shows the number and percentage of students scoring at or above the national average by major subject area in each grade.

Historical trends within MCPS. The students tested in the fall of 1981 improved slightly from the already high level of performance demonstrated by students tested in the previous year. In 3 of the 4 grades tested, the average Total Battery score went up 1 NCE point each. In Grade 5, where the scores were highest each year, the average remained constant. These trends are shown in Figure 1.2.

Of the 33 subtests administered across 4 grades, there was an increase in the county average from 1980 to 1981 in 24. The average for the other 9 subtests remained the same. Reading Comprehension and Math Computation were the only subjects that improved in all 4 grades. The detailed data showing historical trends are found in Tables A2 and A3 in Appendix A.

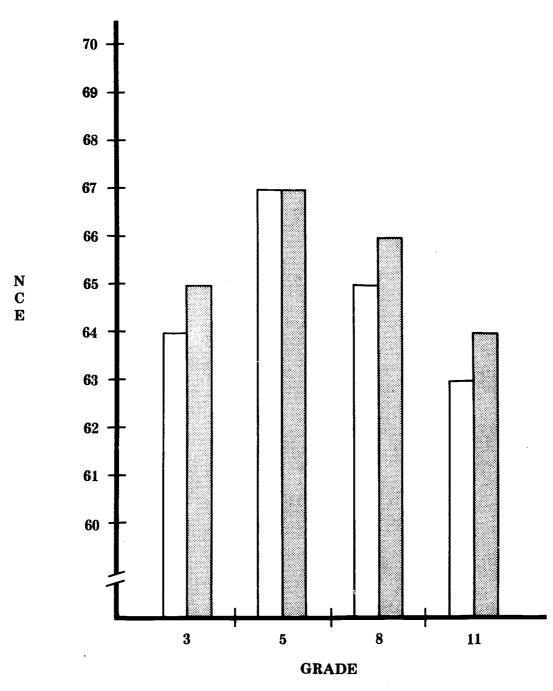
Patterns of performance across grades. There was little variation in average scores across the grades tested in MCPS. The highest average NCE score in the Total Battery was 67 in Grade 5 and the lowest was 64 in Grade 11 (see Figure 1.2). This consistency was also found in the various subject areas. The largest range was 5 NCE points in Language—Grade 5 averaged 68 and Grade 11 averaged 63. Detailed data are presented in Tables A2 and A3 in Appendix A.

The consistent score pattern across grades is especially noteworthy because when the Iowa Tests of Basic Skills (ITBS) were administered, the results generally showed a decline in scores from lower to higher grades. This score decline caused some concern. A response to that concern was to look at the score patterns for students tested in MCPS in two grades (defined as the longitudinal groups) and those tested in MCPS in only one grade (defined as the nonlongitudinal groups) to see if the transferring students were causing the decline. It was found that both the longitudinal (L) and nonlongitudinal (NL) groups generally had similar declining score patterns. The data from the 1981-82 school year show that the change to the CAT has eliminated this decline for the overall MCPS population. It has also eliminated the decline for the L and NL groups considered separately (see Tables A4 to A6 in the In fact, results for the longitudinal group tested in MCPS in Grade 5 (ITBS) and Grade 8 (CAT) show a 5-NCE-point increase on the total The change in score patterns from the ITBS to the CAT is probably more a function of using a new test than any dramatic shift in achievement. possible that, as the CAT becomes older, its content may diverge more from what is actually being taught, especially in the upper grades where more of the students' time is taken up with electives. This may well cause declines across grades for the CAT, just as we experienced them for the ITBS.

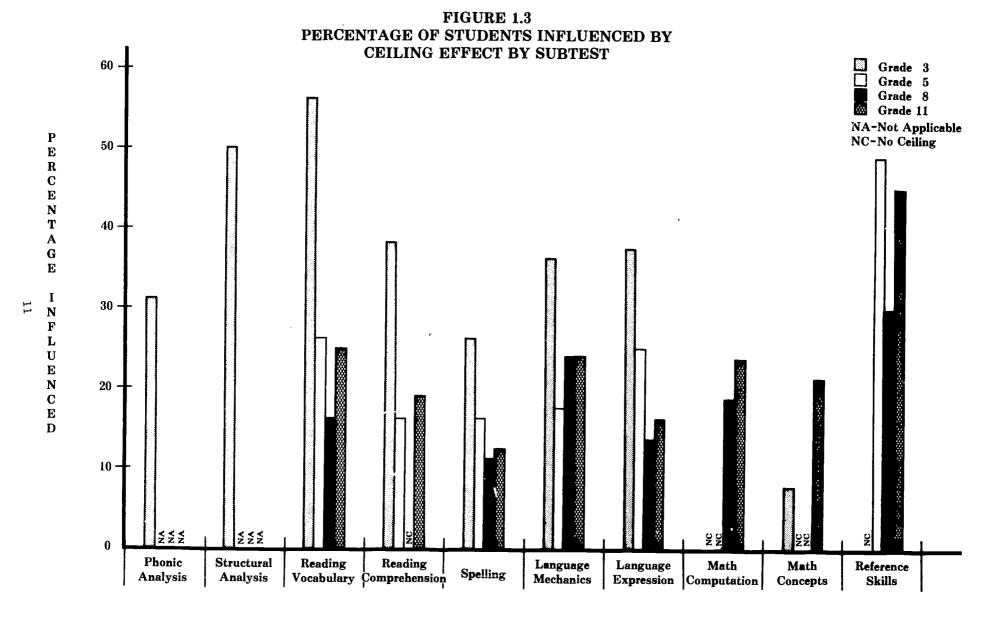
Influence of ceiling effect. The ceiling effect was strongest in Grade 3 on the reading and language subtests (see Figure 1.3). Scores of from 26 to 57 percent of the students tested were possibly influenced by the ceiling effect on these subtests. Reference Skills scores in Grades 5, 8, and 11 were similarly affected with from 30 to 48 percent of the scores influenced. In contrast, only a few of the subtests on the ITBS had a slight ceiling effect. The percentage of students whose scores might have been influenced by the ceiling effect was much smaller on the ITBS. See Table A7 in Appendix A for detailed data.



FIGURE 1.2 CALIFORNIA ACHIEVEMENT TESTS MEAN NCE SCORE ON TOTAL BATTERY 1980 AND 1981







SUBTESTS

Data by Racial/Ethnic Group

MCPS began reporting test data by racial/ethnic groups in 1978 as part of the systemwide effort to monitor educational equity. The change in tests has not led to any significant charge in the results from those reported in past years. The results for the fall of 1981 administration are highlighted by the following:

- o Average scores for all racial/ethnic groups, except for black students in Grade 11, were at or above the overall national norm average on the Total Battery. The Grade 11 black students were only slightly below the national norm average.
- o Compared to 1980, average scores on the Total Battery increased slightly in three grades each for black and white students. Their scores remained the same in the other grade. The trend of average scores for Asian and Hispanic students showed more variation by grade.
- o White students scored substantially higher than black and Hispanic students on the Total Battery in all grades tested. Asian students scored slightly higher than white students in all grades except the eleventh where the two groups had the same average score.
- o The score difference between black and white and Asian and white students tended to decrease slightly from 1980. The sc re difference between Hispanic and white students tended to increase slightly.
- o Average scores for black, white and Hispanic students in MCPS are well above the national norm averages for members of those racial/ethnic groups.
- o MCPS black and Hispanic students performed better, compared to their racial/ethnic counterparts in the national norm group, than did MCPS white students.

Performance of MCPS racial/ethnic groups compared to overall national norm group performance. The average Total Battery scores for the major racial/ethnic groups in MCPS were at or above the average of the national norm group. The one exception to this was the black students in Grade 11 whose average of 47 NCE points is slightly below the national average. This score pattern was the same for the major subject areas. Figures 1.4 to 1.7 show the results for the Total Battery for each grade by race. Tables A8 to All in Appendix A have the detailed results by subtest for each race.

Score trends for MCPS racial/ethnic groups. The overall county trend of a slight increase from 1980 to 1981 on the Total Battery was generally reflected in the results for black and white students. Black students had a 2- to 3-NCE point increase in each of 3 grades and their average remained constant in



^{5.} Substantial is defined here as at least 8 NCE points. This is more than one-third of a standard deviation, a criterion often used to indicate meaningful differences.

FIGURE 1.4 TRENDS FROM 1980 TO 1981 ON CAT TOTAL BATTERY FOR ASIAN STUDENTS

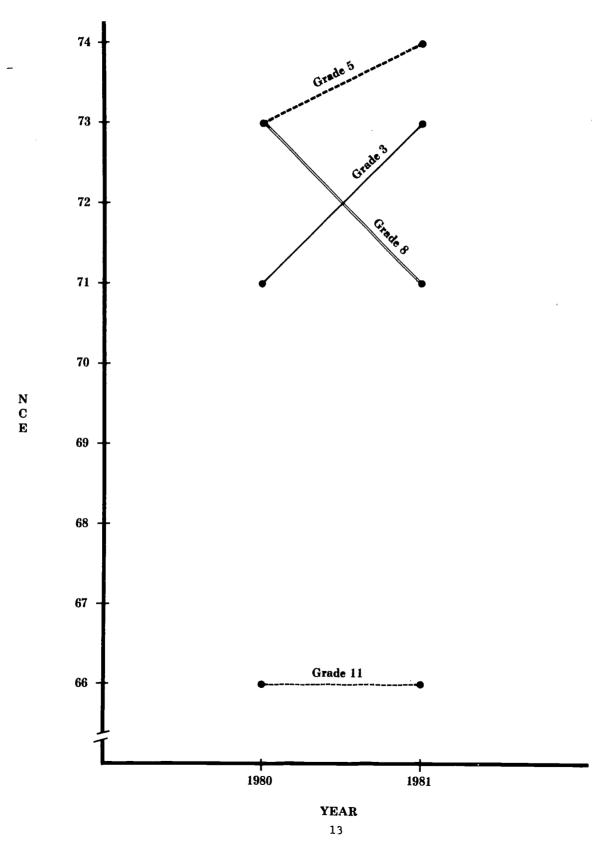




FIGURE 1.5 TRENDS FROM 1980 TO 1981 ON CAT TOTAL BATTERY FOR BLACK STUDENTS

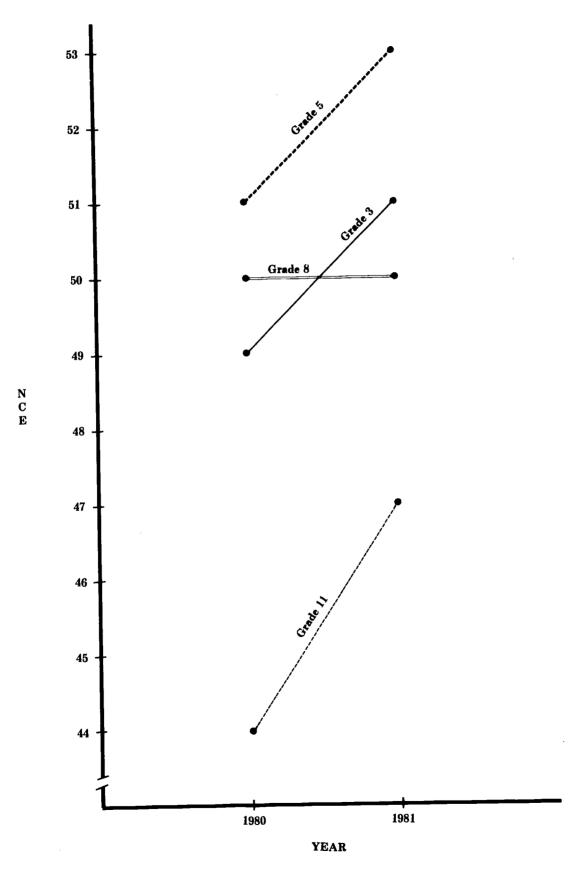
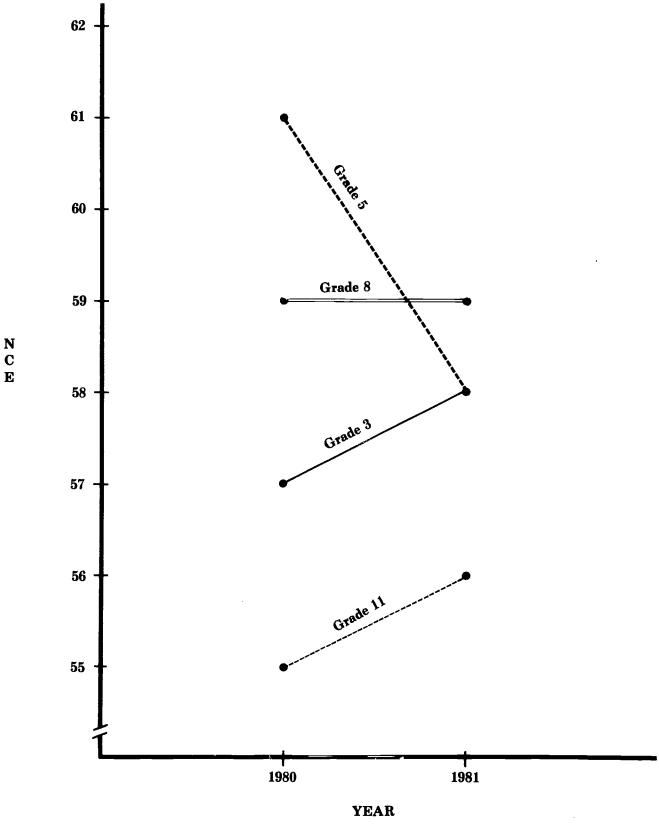




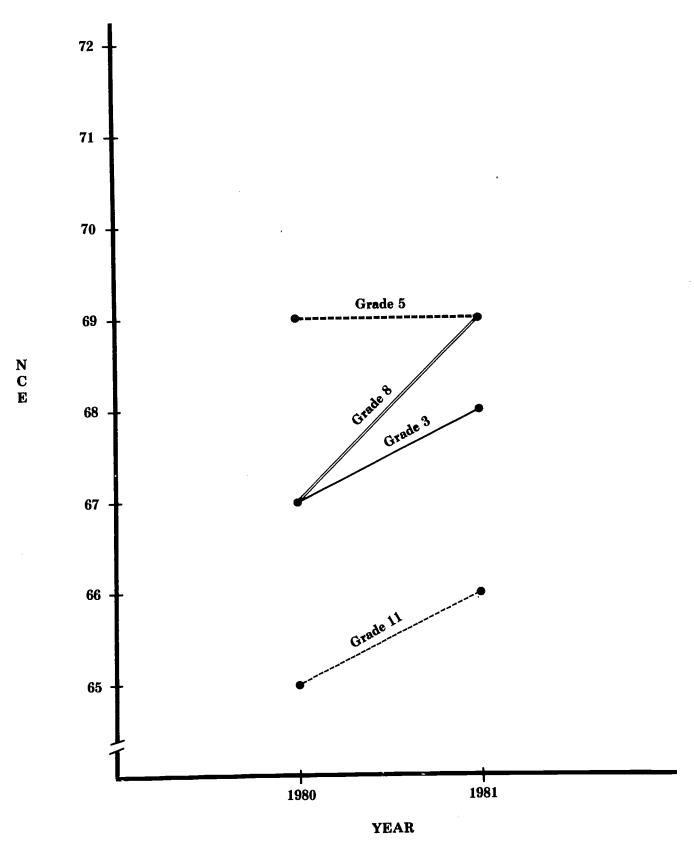
FIGURE 1.6 TRENDS FROM 1980 TO 1981 ON CAT TOTAL BATTERY FOR HISPANIC STUDENTS



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FIGURE 1.7 TRENDS FROM 1980 TO 1981 ON CAT TOTAL BATTERY FOR WHITE STUDENTS





Grade 8. White students had a 1- to 2-NCE point increase in each of 3 grades and their average remained constant in Grade 5. Asian and Hispanic students had score increases in two grades, no change in one, and a decline in one. For the Asian students, the decline was 2 NCE points in Grade 8. For the Hispanic students, it was 3 points in Grade 5.

Another way to look at score trends for the various racial/ethnic groups is by tracing the results for the same students for two different test administrations, i.e., longitudinal analysis. As previously pointed out, score changes in this kind of analysis can be caused by differences in the tests given at each grade. However, some meaning can be derived from group trends if these differences can be taken into account. One way to do this is to establish a baseline against which to compare each group trend. The county longitudinal trend can be used as this baseline. Since white students make up more than 80 percent of the students tested, their trend is usually the same as the county trend. The three minority groups generally had trends as good as or better than the overall county trend on the total test and each subject area. The only exception on the total test was for black students tested in Grade 3. This trend was 1 NCE point below the county trend. Longitudinal and nonlongitudinal results by race are shown in Tables A12 to A19.

Majority/Minority score comparisons within MCPS. White students averaged between 16 (Grade 5) and 19 (Grade 11) NCE points higher than black students on the Total Battery. While these differences are substantial, they represent a 1- to 2- point decrease from 1980 in all grades except the eighth where the difference increased by 2 points. This pattern was similar for each subject area.

White students averaged 10 or 11 NCE points higher than Hispanic students on the Total Battery. In Grades 5 and 8, the difference increased from 1980 by 3 and 2 NCE points, respectively.

Asian students averaged from 2 to 5 NCE points higher than white students on the Total Battery in Grades 3, 5, and, 8. The two groups had the same average in Grade 11. The major reason that Asian students tended to score higher on the Total Battery was the fact that they scored 7 and 8 points higher on the Math Total. White students scored higher on the Reading Total in all grades except the third where the two groups were even. The results on the Language Total were mixed, with Asian students a little higher in the elementary grades and white students a little higher in the secondary grades. In Grades 3 and 5 the difference between these groups increased from 1980 by 1 point on the Total Battery. In Grade 8 the difference decreased by 4 points, and in Grade 11 a 1- point difference seen in 1980 disappeared.

The results by race for each subtest can be found in Tables A8 to A11 in Appendix A.

Majority/Minority score differences in MCPS compared to those in the national norm group. The score differences between white and minority groups have been noted each year since 1978. However, because of lack of data before 1980, it was not possible to compare these differences with ones reported elsewhere. This situation has now changed because McGraw-Hill, the publisher of the CAT, has reported data on the performance of "black," "Hispanic," and "other" students in the national norm sample. The third group, "other," combines white, Asian, and American Indian students. These data provide a way to compare performance of various racial/ethnic groups in MCPS with that of students of the same racial/ethnic background in a national group.



Additionally, these data provide a benchmark against which to compare the score differences found in MCPS.

The results discussed in this section may be slightly different from other sections because of the "other" group discussed above and because the McGraw-Hill results are reported in raw score terms, not NCEs.

While MCPS black and Hispanic students score substantially below MCPS white students, they score well above their counterparts in the national norm group. In Grades 3, 5, and 8 on the Total Battery, the MCPS minority group students averaged from 17 to 20 NCE points above the members of their racial groups in the national norm sample. The difference for white students cannot be determined exactly, but a very good estimate can be made from looking at the results of the "other" group since the white students made up over 90 percent of that group. The Total Battery differences for "other" students were 15 to 16 NCE points. The results are similar for each major subject area. Summary results are presented in Table A20 in the Appendix.

The fact that the MCPS/national differences were larger for black and Hispanic students than for "other" students means that, when compared to their racial/ethnic counterparts in the national norm group, MCPS minority students perform slightly better than MCPS white students. Another way to look at these results is that the score differences between black and white and Hispanic and white students are smaller in MCPS than they are nationally. The MCPS/national differences on the Total Battery are shown in Figure 1.8.

Cautions to be observed when reviewing results for Asian and Hispanic students. The results for Asian and Hispanic students are not as representative of the skills of these groups as are the results for white and black students since many Asian and Hispanic students are exempted from testing because they cannot read English well enough to obtain valid results on the test. Additionally, some members of these groups who are able to take the test probably do not know English well enough to perform up to their full capabilities. The extent of the exemptions can be seen in Table A21 which shows the percentage of students in each racial/ethnic group who were tested in the fall of 1980 and 1981. In 1981 about 76 percent of the enrolled Hispanic students and 81 percent of the enrolled Asian students were tested. These figures compare to 95 for white students and 92 for black students.

Data for Males and Females

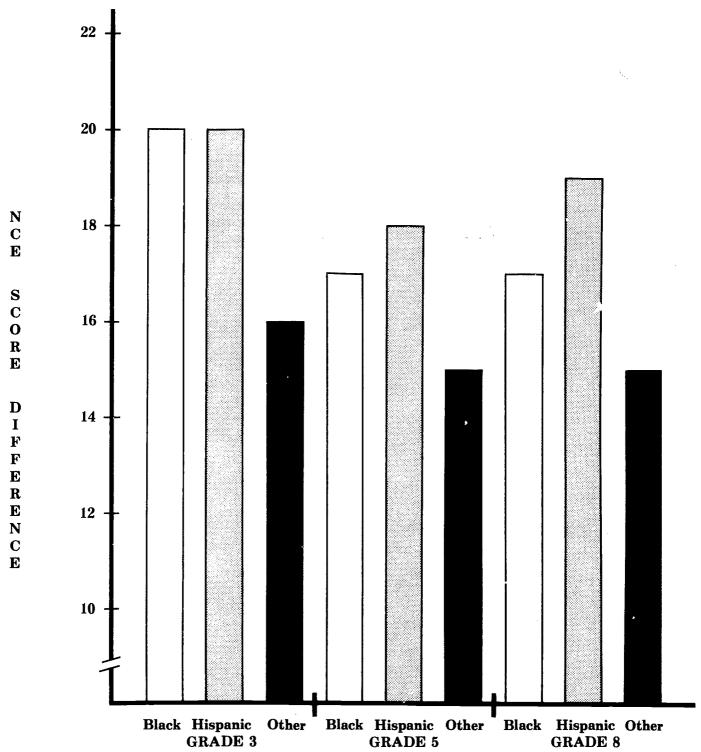
Another part of the effort to monitor educational equity in MCPS has been to analyze test results for males and females. The results from this analysis are highlighted by the following:

^{6.} To obtain comparable local data the MCPS averages had to be recomputed using raw scores. The MCPS and McGraw-Hill raw score averages were then converted to NCEs. Converting mean scores computed in another metric to NCEs is a questionable procedure. To take advantage of the equal interval property of NCEs, they should be used for computing the mean. However, in this case it was necessary to make such a conversion to a standardized score so results from different testing times could be compared. MCPS students were tested in the fall and the McGraw-Hill results were from a spring testing. There was no way to make meaningful comparisons of raw scores from tests administered seven months apart.



FIGURE 1.8 AVERAGE SCORE DIFFERENCES BETWEEN MCPS STUDENTS AND STUDENTS IN THE NATIONAL NORM GROUP

(Tests administered in MCPS in November 1981)





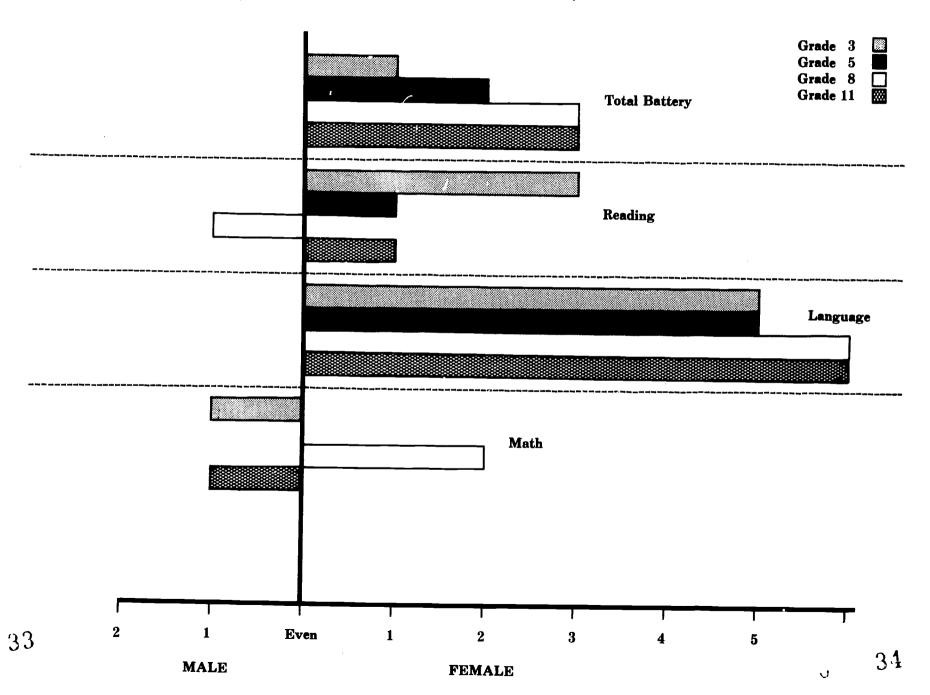
- o Females scored slightly higher than males on the Total Battery in all grades tested.
- o Language skills was the only subject area in which females scored higher in all grades.

The score differences between males and females ranged from 1 (Grade 3) to 3 NCE points (Grades 8 and 11). This small range was the same as in the fall of 1980.

The largest and most consistent differences between the sexes were found in the language skills where females averaged 5 to 6 points higher. Females tended to do slightly better in reading and males tended to do slightly better in math. The major exception to these patterns was in Grade 8 where males were 1 point higher in reading and females were 2 points higher in math. The two groups scored the same in math in Grade 5. These results are illustrated in Figure 1.9. Detailed results by sex are presented in Tables A22 to A25 in the Appendix.



FIGURE 1.9 CALIFORNIA ACHIEVEMENT TESTS, NCE SCORE DIFFERENCES FOR MCPS MALES AND FEMALES, FALL 1981



SCHOOL RESULTS

Average Subtest Scores

School averages are listed in Tables 1 to 4. The scores reported are grouped by major subject area and also include the Total Battery. These lists are in alphabetical order by grade. The first page for each grade follows:

Grade 3--Page 24

· Grade 5--Page 30

Grade 8--Page 36

Grade 11--Page 38



TABLE 1

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 THIRD GRADE RESULTS

| | | 1 | | TOTAL | 1 | 1 | HDNICS | | | RUCTUR | | – | EADING | | | EADING | | | OTAL EADING | |
|-----------------|------------|----------|------|------------|----------|------|--------|----------|----------|--------------------|----------|------|---------------------|------------|-------------|------------|----------|---------|---------------------|-------|
| l l | | 1 | B▲ | ATTERY | i | 1 | NALYSI | - | | NALYSI | | | ABULA | | | EHENS | | | | PER |
| 1 | SCHOOL | | NCE | SS | PER | NCE | | PER | NCE | SS | | NCE | | PER | NCE MEAN | _ | PER | NCE | MEAN | |
| SCHOOL | | TESTED | MEAN | MEAN F | RANK_ | MEAN | MEAN | K ANK | MEAN | MEAN | KANK | MEAN | MEAN | MANK | MEAN_ | MEAN | PANK | - E AIN | · · · · MIN | · MIN |
| | | | 1 | | | | 202 | E0 1 | 70 | 434 | 83 | 53 | 396 | 56 | 55 | 414 | 59 | 57 | 398 | 64 |
| RCOLA | 790 | 13 | 67 | 406 | 79 | 53 | 393 | 58 | 70 68 | 434 429 | 81 | 65 | 396 427 | 77 | 67 | 448 | 79 | 68 | 427 | 81 |
| SHBURTON | 425 | 52 | 74 | 423 | 89 | 60 | 410 | 69 51 | 68 | 429 | 68 81 | 61 | 416 | 70 | 58 | 422 | 64 | 56 | 396 | 62 |
| YRLAWN | 421 | 23 | 59 | 394 | 69 | 50 | 383 | 51 78 | | 405 4 20 | 77 | 73 | 447 | 87 | 73 | 462 | €6 | 14 | 443 | 88 |
| ANNO CKBURN | 420 | 41 | 75 | 426 | 91 | 66 | 427 | 78 72 | 65 | 420 429 | 81 | 69 | 435 | 81 | 67 | 447 | 79 | 69 | 428 | 82 |
| ARNSLEY | 505 | 50 | 75 | 423 | 89 | 62 | 416 | 72 72 | 68 | 429 418 | 76 | 69 | 435 429 | 78 | 66 | 444 | 77 | 67 | 424 | 80 |
| ELLS MILL | 607 | 41 | 68 | 409 | 81 | 61 | 415 | 72 82 | 64 | | | 66 | 429 4 3 2 | 80 | 70 | 456 | e3 | 74 | 441 | 87 |
| ELMONT | 513 | 39 | 77 | 426 | 91 | 70 | 438 | 83 | 73 | 442 | 87 84 | | 432 413 | 68 | 62 | 433 | 71 | 63 | 412 | 73 |
| EL PRE | 780 | 32 | 73 | 419 | 87 | 58 | 406 | 66 | 70 | 436 | 84 | 60 | | 79 | 71 | 433 456 | £3 | 65 | 431 | 83 |
| ETHESDA | 401 | 38 | 73 | 421 | 88 | 64 | 421 | 75 | 60 | 407 | 69 | 66 | 430 | 82 | 67 | 456 447 | 79 | 68 | 427 | 81 |
| EVERLY FARMS | 226 | 55 | 76 | 424 | 90 | 60 | 411 | 69 | 68 | 429 | 61 | 64 | 436 435 | 82 81 | 69 | 447 | 81 | 70 | 430 | 83 |
| RADLEY | 410 | 25 | 76 | 426 | 91 | 62 | 416 | 72 | 69 | 433 | 83 | 68 | 435 | | 1 | 451 391 | 43 | 48 | 374 | 41 |
| RDAD ACRES | 304 | 30 | 54 | 381 | 56 | 49 | 381 | 50 | 52 | 385 | 55 | 49 | 388 | 49 | 46 | 391 437 | 73 | 67 | 423 | 79 |
| RDOKHAVEN | 07 | 47 | 69 | 414 | 85 | 61 | 413 | 70 | 69 | 433 | 83 | 64 | 424 | 75 | 64 | | 73 79 | 70 | 423 | 84 |
| RODKMONT | 414 | 24 | 76 | 427 | 91 | 61 | 414 | 71 | 61 | 410 | 71 | 71 | 443 | 85 41 | 67 | 447 385 | 79 39 | 45 | 4 <i>3</i> 2 366 | 41 |
| ROOK V I EW | 307 | 9 | 51 | 376 | 51 | 44 | 368 | 41 | 52 | 386 | 55 | 45 | 377 | 41 | 44 | | | 59 | 402 | 67 |
| ROWN STATION | 559 | 90 | 60 | 394 | 69 | 54 | 395 | 59 | 56 | 395 | | 59 | 413 | 68 | 61 | 431 445 | 70 | 78 | 402 453 | 91 |
| URNING TREE | 419 | 49 | 89 | 457 | 98 | 71 | 443 | 85 | 69 | 432 | 83 | 73 | 447 | 87 | 74 | 465 | E7 | | | 71 |
| URTONSVILLE | 302 | 23 | 71 | 417 | 86 | 59 | 407 | 67 | 66 | 423 | 78 | 57 | 406 | 63 | 62 | 433 | 71 | 61 | 408 | |
| ANDLEWOOD | 508 | 43 | 61 | 395 | 70 | 53 | 393 | 58 | 58 | 402 | 66 | 62 | 419 | 72 | 59 | 427 | 67 | 59 | 401 | 66 |
| ANNON ROAD | 310 | 53 | 68 | 409 | 81 | 59 | 407 | 67 | 64 | 418 | | 64 | 425 | 76 | 64 | 439 | 75 | 65 | 418 | 77 |
| ARDEROCK SP. | 604 | 41 | 84 | 444 | 96 | 72 | 446 | 86 | 75 | 448 | | 73 | 447 | 87 | 73 | 462 | 86 | 79 | 456 | 92 |
| ASHELL | 511 | 60 | 66 | 404 | 78 | 65 | 426 | 77 | 63 | 415 | 74 | 66 | 429 | 78 | 62 | 435 | 72 | 67 | 424 | |
| EDAR GROVE | 703 | 26 | 66 | 409 | 81 | 56 | 399 | 62 | 62 | 412 | 72 | 62 | 420 | 73 | 61 | 431 | 70 | 62 | 410 | 12 |
| HEVY CHASE | 403 | 63 | 67 | 407 | 80 | 57 | 403 | 64 | 58 | 403 | | 65 | 426 | 76 | 65 | 440 | 75 | 63 | 413 | 74 |
| LARKSBURG | 101 | 51 | 60 | 394 | 69 | 55 | 398 | 61 | 57 | 399 | | 60 | 413 | 68 | 59 | 425 | 66 | 59 | 403 | 67 |
| LARKSBUKG | 308 | 42 | 62 | 397 | 72 | 58 | 404 | 65 | 63 | 417 | | 65 | 425 | 76 | 61 | 430 | 69 | 62 | 410 | |
| | 238 | 72 56 | 82 | 440 | 95 | 64 | 422 | 75 | 72 | 440 | 86 | 72 | 444 | 86 | 72 | 461 | 65 | 74 | 443 | 88 |
| DLD SPRING | 238 | 50 47 | 72 | 419 | 87 | 62 | 417 | 73 | 59 | 405 | | 67 | 431 | 79 | 68 | 450 | 80 | 68 | 426 | |
| DLLEGE GARDEN | 218 | 26 | 70 | 413 | 84 | 43 | 364 | 38 | 61 | 411 | | 61 | 418 | 71 | 59 | 425 | 66 | 54 | 389 | 58 |
| CNGRESSIONAL | | | 64 | 401 | 75 | 61 | 414 | 71 | 64 | 420 | | 62 | 420 | 73 | 59 | 427 | 67 | 63 | 414 | 74 |
| DNNECTICUT PK. | 779 808 | 29 35 | 74 | 401 420 | 88 | 62 | 418 | 73 | 65 | 421 | | 66 | 429 | 78 | 65 | 442 | 76 | 68 | 426 | |
| RESTHAVEN | 1 | | 72 | 420 419 | 87 | 61 | 415 | 72 | 70 | 436 | | 66 | 428 | 78 | 66 | 444 | 77 | 68 | 427 | 81 |
| AMASCUS ES | 702 | 76 46 | 69 | 419 | 87 83 | 60 | 410 | 69 | 68 | 431 | - | 65 | 426 | 76 | 68 | 449 | 80 | 67 | 424 | |
| IARNE STOWN | 351 | 46 85 | | 412 | 81 | 59 | 407 | 67 | 65 | 420 | | 64 | 424 | 75 | 66 | 444 | 71 | 65 | 420 | |
| AMOND | 570 | 85 61 | 68 | 409 408 | 81 | 57 | 407 | 64 | 62 | 414 | | 66 | 429 | 78 | 63 | 436 | 73 | 64 | 414 | |
| UFIEF | 241 | 61 50 | | 408 365 | 81 40 | 43 | 362 | 37 | 45 | 366 | | 47 | 381 | 44 | 50 | 402 | 51 | 45 | 367 | |
| . SILVER SPRING | 756 | 50 | 45 | | 40 80 | 59 | 409 | | 68 | 431 | | 60 | 414 | 69 | 61 | 430 | | 64 | 415 | |
| AIRL AND | 303 | 48 | 67 | 407 417 | | | 409 | 68 69 | 64 | 418 | | 68 | 435 | 81 | 65 | 440 | = = | 67 | 422 | |
| ALLSMEAD | 233 | 44 | 72 | 417 | 86 92 | 60 | 411 | | 72 | 410 | | 74 | 449 | 88 | 70 | 455 | | 75 | 447 | 84 |
| ARML AND | 219 | 44 | 78 | 433 | 93 75 | 66 | 429 | | 58 | 400 | | 60 | 415 | 69 | 64 | 438 | | 61 | 408 | |
| IELDS ROAD | 566 | 40 53 | 64 | 401 | 75 05 | 56 | | | 63 | 416 | | 62 | 418 | 71 | 65 | 442 | | 64 | 416 | |
| LOWER VALLEY | 506 | 52 | 70 | 414 | 85 | 59 | 408 | | 59 | 416 | | 69 | 436 | | 63 | 436 | 2.2 | 63 | 413 | |
| DREST GROVE | 768 | 15 | 68 | 407 | 80 | 58 | 405 | | | | | 64 | 423 | | 63 | 435 | • - | 59 | 403 | |
| DREST KNOLLS | 8.03 | 30 | 66 | 407 | 80 | 50 | 385 | | 59 | 403 417 | | 57 | 406 | 63 | 60 | 428 | | 59 | 402 | - |
| OUR CORNERS | 763 | 43 | 64 | 403 | 77 | 51 | 385 | | 64 | 417 | | 57 | 405 | 64 | 56 | 416 | | 56 | 394 | |
| DX CHAPEL | 106 | 56 | 60 | 394 | 69 | 55 | 397 | | 52 | 384 | | 57 | 407 401 | 64 59 | 58 | 423 | | 59 | 402 | |
| AITHER SBURG ES | 553 | 80 | 59 | 393 | 68 | 55 | 398 | | 62 | 414 | | | | - | 57 | 420 | | 57 | 398 | |
| ALWAY | 313 | 42 | 63 | 400 | 75 | 54 | 394 | 58 | 64 | 417 | 75 | 53 | 397 | סכ | 1 21 | 720 | U 3 | 1 " | סדכ | - 0' |



TABLE 1 (continued)

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 THIRD GRADE RESULTS

| | 65 67 58 69 64 71 69 61 65 64 64 63 55 64 78 65 65 65 65 65 65 65 65 65 65 65 65 65 | | PER RANK 77 79 66 73 82 75 84 82 71 76 75 44 76 73 61 58 | 64 69 64 79 73 70 84 80 71 74 81 60 76 | 479 493 480 517 502 493 530 520 497 506 521 470 510 | 75 82 75 92 87 82 95 93 84 88 | NCE MEAN 60 66 62 76 69 72 63 69 64 68 | MEAN 460 478 464 506 485 485 492 469 486 469 | 70 79 72 89 82 85 75 82 75 | 64 69 63 81 74 71 81 75 | SS MEAN 461 478 460 515 492 484 514 494 | 76 84 75 94 89 86 94 | 73 79 58 68 74 59 | | 86 94 66 84 89 69 | NCE MEAN 66 68 58 72 72 66 74 | SS MEAN 425 430 407 437 436 424 441 | 80 63 65 87 86 79 | 71 75 59 72 75 64 | 401 412 383 406 409 391 | PER RANI 84 91 68 87 89 |
|---|--|--|---|--|---|--|---|---|--|--|--|--|----------------------------------|--|----------------------------------|---|---|----------------------------------|----------------------------------|--|---|
| ASHBURTON AYRLAWN BANNOCKBURN BARNSLEY BELLS MILL BELMONT BEL PRE BETHESDA BEVERLY FARMS BRADLEY BROAD ACRES BROOK MONT BROOK VIEW BROOK VIEW BRONN STATION BURNING TREE BURTONSVILLE CANNON ROAD CARDEROCK SP. CASHELL CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 67 58 62 69 64 71 69 61 65 64 47 64 63 56 78 | 480 452 465 487 471 496 461 473 471 412 466 443 437 517 | 79 66 73 82 75 84 82 71 76 75 44 76 73 61 | 69 64 79 73 70 84 80 71 74 81 60 76 | 493 480 517 502 493 530 520 497 506 521 470 | 82 75 92 87 82 95 93 84 88 | 66 62 76 69 69 72 63 69 | 478 464 506 485 485 492 469 486 469 | 79 72 89 82 82 85 75 | 69 63 81 74 71 81 75 | 478 460 515 492 484 514 | 84 75 94 89 86 | 73 79 58 68 74 59 | 377 394 352 374 382 355 | 86 94 66 84 89 69 | 66 68 58 72 72 66 | 425 430 407 437 436 424 | 80 63 65 87 86 79 | 71 75 59 72 75 | 401 412 383 406 409 391 | 84 91 68 87 |
| AYRLAWN BANNDCKBURN BARNSLEY BELLS MILL BELLMONT BEL PRE BETHESDA BEVERLY FARMS BRADLEY BROAD ACRES BROOK HAVEN BROOK VIEW BROHN STATION BURNING TREE BURTONSVILLE CANNON ROAD CANNON ROAD CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 58 62 69 64 71 69 61 65 64 47 64 56 54 78 | 452 465 487 471 486 461 473 471 412 466 443 437 517 | 66 73 82 75 84 82 71 76 75 44 76 73 61 | 64 79 73 70 84 80 71 74 81 60 76 | 493 480 517 502 493 530 520 497 506 521 470 | 82 75 92 87 82 95 93 84 88 | 66 62 76 69 69 72 63 69 | 478 464 506 485 485 492 469 486 469 | 79 72 89 82 82 85 75 | 69 63 81 74 71 81 75 | 478 460 515 492 484 514 | 84 75 94 89 86 | 79 58 68 74 59 | 394 352 374 382 355 | 94 66 84 89 69 | 68 58 72 72 66 | 430 407 437 436 424 | 63 65 87 86 79 | 75 59 72 75 | 412 383 406 409 391 | 91 68 87 89 |
| BANNOCKBURN BARNSLEY BELLS MILL BELMONT BEL PRE BETHESDA BEVERLY FARMS BRADLEY BRODK MONT BRODK MONT BRODK VIEW BROWN STATION BURNING TREE BURTONSVILLE CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 62 69 64 71 69 61 65 64 47 64 63 56 54 78 | 465 487 471 492 486 461 473 471 412 466 443 437 517 | 73 82 75 84 82 71 76 75 44 76 73 | 79 73 70 84 80 71 74 81 60 76 | 517 502 493 530 520 497 506 521 470 | 92 87 82 95 93 84 88 93 | 76 69 69 72 63 69 | 506 485 485 492 469 486 469 | 72 89 82 82 85 75 | 63 81 74 71 81 75 | 460 515 492 484 514 | 75 94 89 86 | 58 68 74 59 | 352 374 382 355 | 66 84 89 69 | 58 72 72 66 | 407 437 436 424 | 65 87 86 79 | 59 72 75 | 383 406 409 391 | 68 87 89 |
| BARNSLEY BELLS MILL BELMONT BEL PRE BETHESDA BEVERLY FARMS BRADLEY BRODAD ACRES BRODK MONT BRODK VIEW BROWN STATION BURNING TREE BURTO NSVILLE CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARK SBURG CLOVERLY COLD SPRING | 69 64 71 69 61 65 64 47 64 63 56 54 78 | 487 471 492 486 461 473 471 412 466 443 437 517 | 82 75 84 82 71 76 75 44 76 73 | 73 70 84 80 71 74 81 60 76 | 517 502 493 530 520 497 506 521 470 | 92 87 82 95 93 84 88 93 | 76 69 69 72 63 69 | 506 485 485 492 469 486 469 | 89 82 82 85 75 82 | 81 74 71 81 75 | 515 492 484 514 | 94 89 86 | 68 74 59 | 374 382 355 | 84 89 69 | 72 72 66 | 437 436 424 | 87 86 79 | 72 75 | 406 409 391 | 87 89 |
| BELLS MILL BELMONT BEL PRE BETHESDA BEVERLY FARMS BRADLEY BROAD ACRES BRODKHAVEN BRODK VIEW BROWN STATION BURNING TREE BURTONSVILLE CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CLARKSBURG CLOVERLY COLD SPRING | 64 71 69 61 65 64 47 64 63 56 54 78 | 471 492 486 461 473 471 412 472 466 443 437 517 | 75 84 82 71 76 75 44 76 73 | 73 70 84 80 71 74 81 60 76 | 502 493 530 520 497 506 521 470 | 87 82 95 93 84 88 93 | 69 69 72 63 69 | 485 485 492 469 486 469 | 82 82 85 75 82 | 74 71 81 75 | 492 484 514 | 89 86 | 74 59 | 382 355 | 89 69 | 72 66 | 436 424 | 86 79 | 75 | 409 391 | 89 |
| BELMONT BEL PRE BETHESDA BEVERLY FARMS BRADLEY BROAD ACRES BRODK HAVEN BROOK VIEW BROWN STATION BURNING TREE BURTONSVILLE CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 71 69 61 65 64 47 64 63 56 54 78 62 | 492 486 461 473 471 412 472 466 443 437 517 | 84 82 71 76 75 44 76 73 | 84 80 71 74 81 60 76 66 | 493 530 520 497 506 521 470 | 82 95 93 84 88 93 | 69 72 63 69 64 | 485 492 469 486 469 | 82 85 75 82 | 71 81 75 | 484 514 | 86 | 59 | 355 | 69 | 66 | 424 | 79 | | 391 | |
| BEL PRE BETHESDA BEVERLY FARMS BRADLEY BROAD ACRES BRODKHAVEN BRODK MONT BRODK VIEW BROWN STATION BURNING TREE BURTONSVILLE CANDLEWDDD CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 69 61 65 64 47 64 63 56 54 78 62 | 486 461 473 471 412 472 466 443 437 517 | 82 71 76 75 44 76 73 61 | 80 71 74 81 60 76 66 | 520 497 506 521 470 | 93 84 88 93 | 63 69 64 | 492 469 486 469 | 85 75 82 | 81 75 | 514 | | | | | _ | | | C ** | | 76 |
| BETHESDA BEVERLY FARMS BRADLEY BROAD ACRES BRODKHAVEN BRODK MONT BRODK VIEW BROWN STATION BURNING TREE BURTONSVILLE CANDLEWDDD CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 61 65 64 47 64 63 56 54 78 62 | 461 473 471 412 472 466 443 437 517 | 71 76 75 44 76 73 61 | 71 74 81 60 76 66 | 497 506 521 470 | 84 88 93 | 63 69 64 | 469 486 469 | 75 82 | 75 | | · ' · · · | | | | | | 00 | 74 | | |
| BEVERLY FARMS BRADLEY BROAD ACRES BRODKHAVEN BRODK MONT BRODK VIEW BROWN STATION BURNING TREE BURTONSVILLE CANDLEWODD CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 65 64 47 64 63 56 54 78 62 | 473 471 412 472 466 443 437 517 | 76 75 44 76 73 61 | 74 81 60 76 66 | 506 521 470 | 84 88 93 | 69 64 | 486 469 | 82 | | 7,7 | 89 | 77 | 389 | 92 | 68 | 427 | 88 81 | 74 | 406 | 87 89 |
| BRADLEY BROAD ACRES BRODK HAVEN BRODK MONT BRODK VIEW BROHN STATION BURNING TREE BURTONSVILLE CANDLEWDDD CANNON ROAD CARDERDCK SP. CASHELL CEDAR GROVE CLARKSBURG CLOVERLY COLD SPRING | 64 47 64 63 56 54 78 62 | 471 412 472 466 443 437 517 | 75 44 76 73 61 | 81 60 76 66 | 521 470 | 88 93 | 64 | 469 | _ | | 490 | 88 | 68 | 374 | 84 | 72 | | | | 409 | |
| BRDAD ACRES BRODKHAVEN BRODKHAVEN BRODK VIEW BROWN STATION BURNING TREE BURTONSVILLE CANDLEWODD CANNON RDAD CARDERDCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY | 47 64 63 56 54 78 62 | 412 472 466 443 437 517 | 44 76 73 61 | 60 76 66 | 521 470 | 93 | | | | 71 | 483 | 86 | 80 | 394 | 94 | 72 | 437 435 | 87 | 72 | 406 | 87 |
| BROOK HAVEN BROOK MONT BROOK VIEW BROWN STATION BURNING TREE BURTO NS VILLE CANDLEWODD CANNON RDAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARK SBURG CLOVERLY COLD SPRING | 64 63 56 54 78 62 | 472 466 443 437 517 | 76 73 61 | 76 66 | 470 | | | 481 | 80 | 77 | 500 | 91 | 77 | 389 | 92 | 72 | | 86 | 78 | 415 | 92 |
| BROOK MONT BROOK VIEW BROWN STATION BURNING TREE BURTO NS VILLE CANDLEWODD CANNON RDAD CARDEROCK SP. CCASHELL CEDAR GROVE CHEVY CHASE CLARK SBURG CLOVERLY COLD SPRING | 63 56 54 78 62 | 466 443 437 517 | 73 61 | 76 66 | | 69 I | 53 | 439 | 56 | 57 | 440 | 62 | 60 | 356 | 70 | | 437 | 87 | 76 | 413 | 91 |
| BROOK VIEW BROWN STATION BURNING TREE BURTO NS VILLE CANOL EWOOD CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARK SBURG COLD SPRING | 56 54 78 62 | 443 437 517 | 61 | 66 | | 90 | 63 | 468 | 74 | 72 | 486 | 87 | 70 | 375 | 84 | 54 | 398 | 57 | 58 | 3 80 | 65 |
| BROWN STATION BURNING TREE BURTONSVILLE CANOLEWOOD CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 54 78 62 | 437 517 | | 1 | 485 | 78 | 67 | 479 | 79 | 68 | 472 | 82 | 82 | 402 | 96 | 63 | 419 | 75 | 67 | 398 | 81 |
| BURNING TREE BURTONSVILLE CANDLEWODD CANNON RDAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 78 62 | 517 | 58 | 63 | 476 | 73 | 52 | 438 | 55 | 57 | 443 | 65 | 51 | 339 | 54 | 72 | 437 | 87 | 80 | 419 | 94 |
| BURTONSVILLE CANDLEWODD CANNON ROAD CARDERDCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 62 | | | 59 | 468 | 68 | 57 | 450 | 64 | 59 | 447 | 67 | 55 | . 348 | 62 | 51 | 391 | 51 | 52 | 370 | 55 |
| CANDLEWDDD CANNON RDAD CARDERDCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | _ | 465 | 91 | 82 | 526 | 94 | 80 | 518 | 93 | 85 | 528 | 96 | 92 | | 1 | 60 | 411 | 69 | 59 | 382 | 67 |
| CANNON ROAD CARDEROCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 56 | | 73 | 78 | 515 | 9i | 64 | 471 | 76 | 74 | 492 | 89 | 72 76 | 424 388 | 9 9 | 81 | 457 | 93 | 90 | 439 | 98 |
| CARDERDCK SP. CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY CDLD SPRING | | 445 | 62 | 60 | 471 | 70 | 61 | 461 | 70 | 61 | 453 | 71 | | | 1 | 64 | 421 | 17 | 72 | 405 | 86 |
| CASHELL CEDAR GROVE CHEVY CHASE CLARKSBURG CLOVERLY COLD SPRING | 68 | 485 | 81 | 73 | 503 | 87 | 63 | 468 | 74 | 70 | 493 | 85 | 60 | 356 | 70 | 61 | 412 | 7C | 61 | 386 | 71 |
| CEDAR GROVE CHEVY CHASE CLARKSBURG CLDVERLY CDLD SPRING | 71 | 496 | 85 | 78 | 516 | 92 | 72 | 492 | 85 | 78 | 505 | 92 | 66 | 367 | 79 | 61 | 414 | 71 | 65 | 392 | 77 |
| CHEVY CHASE CLARKSBURG CLDVERLY CDLD SPRING | 60 | 456 | 68 | 75 | 507 | 89 | 63 | 466 | 73 | 70 | | | 84 | 406 | 97 | 77 | 447 | 91 | 64 | 426 | 96 |
| CLARKSBURG CLOVERLY COLD SPRING | 62 | 463 | 72 | 70 | 494 | 83 | 65 | 472 | 76 | 59 | 482 477 | 86 84 | 66 | 365 | 77 | 57 | 405 | 63 | 62 | 397 | 72 |
| CLOVERLY COLD SPRING | 61 | 461 | 71 | 62 | 475 | 72 | 67 | 479 | 79 | 65 | | 79 | 65 | 369 | 80 | 63 | 417 | 74 | 66 | 395 | 79 |
| COLD SPRING | 55 | 440 | 60 | 60 | 469 | 68 | 60 | 453 | 68 | 61 | 466 454 | 72 | 68 56 | 372 | 82 | 62 | 414 | 71 | 67 | 395 | 79 |
| | 58 | 449 | 65 | 64 | 479 | 75 | 57 | 452 | 65 | 62 | 455 | 72 | 58 | 348 | 62 | 61 | 413 | 71 | 59 | 383 | 68 |
| COLLEGE GARDEN | 70 | 489 | 83 | 82 | 5 2 5 | 94 | 74 | 500 | 87 | 82 | 515 | 94 | | 352 | 66 | 6 l | 413 | 71 | <i>ϵ</i> 1 | 385 | 7 C |
| | 65 | 474 | 77 | 68 | 489 | 80 | 65 | 473 | 77 | 68 | 475 | 83 | 81 | 398 | 95 | 78 | 450 | 92 | 82 | 424 | 95 |
| CONGRESSIONAL | 57 | 446 | 63 | 77 | 513 | 91 | 70 | 487 | 83 | 76 | 499 | 91 | 72 | 380 | 87 | 71 | 434 | £5 | 73 | 408 | 88 |
| CONNECTICUT PK. | 60 | 456 | 68 | 79 | 518 | 92 | 62 | 466 | 73 | 73 | 488 | 88 | 82 | 402 | 96 | 70 | 433 | 65 | 78 | 418 | 93 |
| CRESTHAVEN | 63 | 468 | 74 | 70 | 495 | 83 | 72 | 493 | 85 | 72 | | 87 | 59 | 354 | 68 | 58 | 407 | 65 | 60 | 383 | 68 |
| DAMASCUS ES | 69 | 489 | 83 | 82 | 525 | 94 | 69 | 486 | 82 | 79 | 487 | | 77 | 386 | 91 | 66 | 423 | 78 | 74 | 406 | 87 |
| DARNESTOWN | 65 | 472 | 76 | 66 | 483 | <i>ii</i> | 64 | 470 | 75 | 66 | 507 467 | 92 79 | 69 74 | 374 | 84 | 65 | 422 | 78 | 69 | 399 | 82 |
| DIAMOND | 64 | 469 | 75 | 76 | 508 | 89 | 64 | 471 | 76 | 72 | | | • • | 380 | 87 | 64 | 420 | 76 | .70 | 401 | 84 |
| DUFIEF | 64 | 469 | 75 | 67 | 486 | 79 | 66 | 476 | 78 | 68 | 487 | 87 83 | 63 | 362 | 75 | 65 | 421 | 77 | 65 | 393 | 77 |
| E. SILVER SPRING | 48 | 417 | 47 | 47 | 437 | 45 | 50 | 430 | 50 | 48 | 475 | 45 | 67 | 368 | 79 | 64 | 420 | 76 | 67 | 396 | 80 |
| FAIRLAND | 59 | 453 | 67 | 72 | 499 | 85 | 64 | 470 | 75 | 70 | 414 | | 45 | 328 | 43 | 46 | 381 | 42 | 45 | 359 | 42 |
| FALLSMEAD | 65 | 474 | 77 | 70 | 494 | 83 | 67 | 480 | 80 | 71 | 479 | 85 86 | 65 | 367 | 79 | 60 | 410 | 68 | 64 | 391 | 76 |
| FARMLAND | 68 | 484 | 81 | 85 | 532 | 95 | 72 | 493 | 85 | 82 | 482 518 | | 70 | 373 | 83 | 71 | 434 | 85 | 72 | 403 | 85 |
| IELDS RDAD | 58 | 449 | 65 | 66 | 484 | 78 | 58 | 454 | 66 | 63 | | 94 | 75 | 387 | 91 | 69 | 431 | 83 | 75 | 410 | 89 |
| LOWER VALLEY | 64 | 469 | 75 | 75 | 507 | 89 | 66 | 476 | 78 | 73 | 459 488 | 75 88 | 64 | 364 | 76 | 63 | 416 | 73 | £5 | 392 | 77 |
| | 67 | 481 | 80 | 73 | 502 | 87 | 69 | 485 | 82 | 72 | 487 | 87 | 69 | 374 | 84 | 67 | 425 | 80 | 70 | 401 | 84 |
| | 64 | 469 | 75 | 71 | 498 | 85 | 62 | 465 | 72 | 68 | 481 475 | 83 | 67 | 366 | 78 | 64 | 420 | 76 | 66 | 394 | 78 |
| | 51 | 426 | 52 | 66 | 485 | 78 | 59 | 458 | 68 | 64 | | | 69 | 373 | 83 | 64 | 420 | 76 | 67 | 398 | 81 |
| | 55 | 440 | 60 | 63 | 477 | 73 | 57 | 451 | 64 | 61 | 461 | 76 | 69 | 374 | 84 | 66 50 | 423 | 78 | 69 | 399 | 82 |
| | 60 | 456 | 6B | 61 | 471 | 70 | 54 | 441 | 57 | 58 | 454 | 72 | 62 | 359 | 72 | 59 50 | 408 | 66 | 61 | 386 | 71 |
| | 61 | 460 | 70 | 69 | 492 | B2 | 58 | 453 | 65 | 56 64 | 443 462 | 65 77 | 60 66 | 356 367 | 70 79 | 59 60 | 408 412 | 66 | 60 64 | 384 392 | 69 7 7 |



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TABLE 1 (continued)

CALIFORNIA ACHIEVEMENT TESTS RESULTS 8Y SCHOOL FALL, 1981 THIRD GRADE RESULTS

| • | SCHOOL | * | | TOTAL ATTERY SS | PER | | HONICS NALYSI SS | | | UCTUR IALYSI SS | S | | AD ING ABULA SS | IR Y | l . | EADING REFEN: SS | | | TOTAL EADING SS | G PER |
|------------------|--------|---------------|----|-----------------------|----------|----|------------------------|----------|----|-----------------------|-----|-----|-----------------------|----------|-----|------------------------|----|-----|-----------------------|----------|
| SCHOOL | | <u>TESTED</u> | | MEAN | | | MEAN | | | MEAN | | | MEAN | | | MEAN | | 1 | MEAN | RAN |
| GARRETT PARK | 204 | 30 | 66 | 405 | 79 | 52 | 388 | 54 | 61 | 409 | 70 | 63 | 423 | 75 | 62 | 434 | 72 | 60 | 404 | 68 |
| GEORGETOWN HILL | 221 | 41 | 81 | 435 | 94 | 70 | 439 | 83 | 76 | 453 | 90 | 74 | 449 | 88 | 77 | 473 | 90 | E1 | 462 | 93 |
| GEORGIAN FOREST | 786 | 23 | 69 | 411 | 83 | 59 | 407 | 67 | 66 | 425 | 79 | 60 | 414 | 69 | 58 | 423 | 65 | 61 | 409 | 71 |
| GERMANTOWN | 102 | 64 | 70 | 413 | 84 | 59 | 408 | 67 | 70 | 436 | 84 | 63 | 421 | 73 | 62 | 434 | 72 | 65 | 418 | 77 |
| GLEN HAVEN | 767 | 54 | 55 | 384 | 60 | 48 | 379 | 48 | 57 | 399 | 64 | 56 | 404 | 62 | 56 | 416 | 60 | 54 | 387 | 56 |
| GLENALLAN | 817 | 27 | 54 | 381 | 56 | 49 | 379 | 48 | 55 | 393 | 60 | 54 | 399 | 58 | 56 | 419 | 62 | 52 | 384 | 54 |
| GREENWOOD | 512 | 64 | 67 | 407 | 80 | 62 | 417 | 73 | 66 | 424 | 79 | 6.3 | 421 | 73 | 62 | 433 | 71 | 67 | 422 | 79 |
| HARMONY HILLS | 797 | 33 | 54 | 381 | 56 | 52 | 389 | 55 | 58 | 403 | 67 | 53 | 397 | 56 | 51 | 405 | 53 | 54 | 390 | 58 |
| HIGHL AND | 774 | 62 | 52 | 379 | 54 | 49 | 381 | 50 | 48 | 377 | 49 | 53 | 397 | 56 | 54 | 412 | 58 | 52 | 383 | 53 |
| HUNGERFORD PK. | 214 | 51 | 63 | 400 | 75 | 54 | 396 | 60 | 63 | 416 | 74 | 55 | 402 | 60 | 57 | 419 | 62 | 58 | 398 | 64 |
| JACKSON ROAD | 305 | 61 | 67 | 407 | 80 | 57 | 402 | 64 | 63 | 414 | 73 | 63 | 421 | 73 | 66 | 444 | 77 | 64 | 414 | 74 |
| CEMP MILL | 805 | 46 | 81 | 445 | 96 | 65 | 425 | 77 | 72 | 442 | 97 | 69 | 436 | 82 | 65 | 442 | 76 | 72 | 437 | 86 |
| KENSI NGTON | 751 | 20 | 74 | 420 | 88 | 58 | 404 | 65 | 70 | 435 | 84 | 62 | 420 | 73 | 64 | 440 | 75 | 65 | 418 | 77 |
| LAKE NORMANDY | 231 | 29 | 74 | 420 | 88 | 64 | 422 | 75 | 69 | 433 | 83 | 70 | 438 | 83 | 75 | 467 | 88 | 73 | 439 | €6 |
| LAKEWOOD | 209 | 36 | 80 | 432 | 93 | 71 | 443 | 85 | 72 | 440 | 86 | 72 | 445 | 86 | 67 | 447 | 79 | 75 | 445 | 89 |
| LAYTONSVILLE | 51 | 69 | 62 | 397 | 72 | 58 | 406 | 66 | 62 | 413 | 73 | 66 | 428 | 78 | 63 | 435 | 72 | 64 | 418 | 77 |
| LONE OAK | 205 | 43 | 55 | 384 | 60 | 53 | 393 | 58 | 61 | 411 | 72 | 59 | 412 | 67 | 59 | 426 | 67 | 59 | 402 | 67 |
| LUXMANOR | 220 | 35 | 73 | 421 | 88 | 62 | 418 | 73 | 65 | 421 | 77 | 67 | 431 | 79 | 69 | 451 | 81 | 69 | 428 | 8 2 |
| LYNN8 ROOK | 409 | 15 | 58 | 390 | 66 | 54 | 394 | 58 | 59 | 404 | 67 | 60 | 414 | 69 | 61 | 430 | 69 | 59 | 401 | 66 |
| MARYVALE | 210 | 46 | 45 | 364 | 39 | 43 | 364 | 38 | 46 | 370 | 44 | 41 | 367 | 34 | 47 | 394 | 45 | 44 | 363 | 39 |
| MEADOW HALL | 212 | 39 | 54 | 382 | 57 | 53 | 390 | 56 | 57 | 399 | 64 | 53 | 398 | 57 | 56 | 419 | 62 | 56 | 393 | 60 |
| MILL CREEK TOWNE | 556 | 72 | 70 | 415 | 85 | 62 | 416 | 72 | 68 | 431 | 82 | 63 | 420 | 73 | 62 | 432 | 70 | 66 | 422 | 79 |
| MONOC ACY | 652 | 25 | 52 | 378 | 53 | 47 | 376 | 46 | 43 | 359 | 36 | 53 | 398 | 57 | 52 | 406 | 53 | 49 | 375 | 48 |
| MONTROSE | 225 | 12 | 68 | 408 | 81 | 51 | 387 | 54 | 63 | 416 | 74 | 53 | 396 | 56 | 53 | 409 | 55 | 55 | 392 | 60 |
| NEW HAMPSHIRE E. | 791 | 32 | 57 | 389 | 65 | 49 | 381 | 50 | 65 | 421 | 77 | 53 | 397 | 56 | 55 | 416 | 60 | 55 | 391 | 59 |
| N. CHEVY CHASE | 415 | 40 | 66 | 406 | 79 | 57 | 404 | 65 | 59 | 404 | 67 | 64 | 423 | 75 | 65 | 440 | 75 | 63 | 413 | 74 |
| DAK VIEW | 766 | 29 | 59 | 392 | 67 | 58 | 405 | 66 | 59 | 4 05 | 68 | 52 | 394 | 54 | 57 | 421 | 64 | 57 | 398 | 64 |
| OAKLAND TERRACE | 769 | 47 | 60 | 394 | 69 | 53 | 390 | 56 | 57 | 399 | 64 | 60 | 414 | 69 | 58 | 424 | | 58 | 399 | 65 |
| OLNEY | 502 | 55 | 65 | 404 | 78 | 54 | 393 | 58 | 69 | 422 | 83 | 61 | 417 | 71 | 62 | 435 | 72 | 63 | 412 | 73 |
| PAGE | 312 | 45 | 56 | 386 | 62 | 51 | 387 | 54 | 55 | 344 | 61 | 55 | 401 | 59 | 60 | 427 | | 56 | 393 | 60 |
| | 783 | 34 | 58 | 391 | £7 | 54 | 394 | 58 | 56 | 396 | 62 | 60 | 415 | 69 | 56 | 418 | 62 | 58 | 400 | 65 |
| PARKWOOD | 1 | 48 | 68 | 408 | 81 | 63 | 420 | 74 | 67 | 426 | 80 | 64 | 424 | 75 | 66 | 444 | 77 | 68 | 426 | 81 |
| PINE CREST | 761 | | 55 | 382 | 57 | 54 | 395 | 59 | 47 | 372 | 45 | 62 | 418 | 71 | 58 | 423 | 65 | 56 | 395 | 62 |
| PLEASANT VIEW | 765 | 28 79 | 58 | 388 | 64 | 52 | 389 | 55 | 53 | 389 | 57 | 57 | 407 | 64 | 59 | 425 | 66 | 56 | 394 | 61 |
| POOLESVILLE ES | 153 | | 1 | | | 58 | | 67 | 62 | 411 | 72 | 65 | 427 | 17 | 65 | 442 | 76 | 65 | 417 | 76 |
| POTOMAC | 601 | 55 | 68 | 408 404 | 81 | 61 | 407 | 70 | 59 | 404 | 67 | 63 | 422 | 74 | 62 | 433 | 71 | 64 | 418 | 71 |
| RADNOR | 416 | 8 | 66 | | 78 | | 413 | | 70 | | 84 | 73 | 447 | 87 | 69 | 452 | 81 | 12 | 436 | 85 |
| RITCHIE PARK | 227 | 56 | 77 | 428 | 91 70 | 62 | 415 | 72 | | 435 | 70 | 62 | 419 | 72 | 59 | 426 | 67 | 55 | 402 | 67 |
| ROCK CREEK FOR. | 773 | 45 | 65 | 404 | 78 | 52 | 389 | 55 40 | 61 | 409 | 79 | 64 | 424 | 75 | 65 | 442 | 76 | 67 | 423 | 79 |
| ROCK CREEK PAL. | 795 | 38 | 72 | 419 | 87 97 | 59 | 409 | 68 | 66 | 424 | 76 | 66 | 430 | 79 | 59 | 426 | 67 | 63 | 414 | 74 |
| ROCK CREEK VAL. | 819 | 47 50 | 72 | 418 | 87 | 58 | 406 | 66 5• | 64 | 419 | | 54 | 400 | 59 | 53 | 409 | 55 | 54 | 390 | 58 |
| ROCKING HORSE | 785 | 50 | 56 | 385 | 61 | 54 | 393 | 58 | 55 | 394 | 6 l | 51 | 392 | 53 | 55 | 416 | 60 | 55 | 393 | 60 |
| ROLLING TERRACE | 771 | 31 | 56 | 387 | 63 | 52 | 388 | 54 | 60 | 406 | 69 | | | 83 | | 453 | | 68 | 426 | 81 |
| ROLLINGWOOD | 411 | 25 | 74 | 421 | 88 | 59 | 409 | 68 | 69 | 432 | 83 | 70 | 438 | 65 49 | 69 | 405 | | 5 C | 377 | 49 |
| ROSEMONT | 555 | 42 | 55 | 3 8 3 | 58 | 43 | 365 | 39 | 59 | 404 | 67 | 49 | 387 | | 1 | | - | | | 72 |
| SADOLEBROOK | 821 | 42 | 64 | 402 | 76 | 55 | 396 | 60 | 61 | 409 | 70 | 62 | 420 | 73 | 64 | 438 | 74 | 62 | 411 | – |
| SEVEN LOCKS | 603 | 31 | 71 | 414 | 85 | 58 | 404 | 65 | 61 | 409 | 70 | 70 | 438 | 83 | 70 | 454 | 82 | 66 | 421 | 78 |
| SHERWCOD ES | 501 | 48 | 64 | 401 | 75 | 57 | 402 | 64 | 62 | 411 | 72 | 64 | 424 | 75 | 61 | 432 | 70 | 62 | 411 | 72 |

TABLE 1 (continued)

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 THIRD GRADE RESULTS

| | S I NCE | PELL II S S | NG PER | 4 | ANGUA(Chani(SS | _ | | ANGUA(PRESS') SS | ION | | TOTAL ANGUA | | | MATH PUTAT | | 1 | MATH S ON | | | TOTAL MATH | |
|------------------------|------------|----------------|-----------|----------|------------------------|----------|----------|-------------------------|-----------------|----------|----------------|-------------|-------------|---------------|-------------|-------------|--------------|-------------|-------------|---------------|-------------------|
| SCHOOL | | MEAN | | | MEAN | | | MEAN | | 1 | SS MEAN | PER RANK | NCE MEAN | SS Mean | PER Rank | NCE MEAN | SS Mean | PER Rank | NCE MEAN | SS MEAN | PER |
| GARRETT PARK | 63 | 467 | 74 | 68 | 488 | 80 | 68 | 482 | 81 | 69 | 478 | 84 | 63 | 360 | 73 | 67 | 425 | 80 | 66 | 393 | |
| SEORGETOWN HILL | 70 | 491 | 83 | 78 | 514 | 91 | 80 | 517 | 93 | 83 | 519 | 95 | 72 | 3 80 | 87 | 77 | 448 | 91 | 76 | 412 | |
| EORGIAN FOREST | 60 | 458 | 69 | 66 | 485 | 78 | 63 | 466 | 73 | 66 | 467 | 79 | 81 | 395 | 94 | 61 | 413 | 71 | 13 | 405 | |
| GERMANT OWN | 66 | 477 | 78 | 78 | 514 | 91 | 66 | 476 | 78 | 75 | 494 | 89 | 73 | 380 | 87 | 64 | 418 | 75 | 70 | 401 | |
| GLEN HAVEN | 58 51 | 451 | 66 | 55 | 456 | 59 | 52 | 437 | 55 | 54 | 432 | 57 | 61 | 357 | 70 | 52 | 393 | 52 | 57 | 378 | |
| GLENALLAN Greenwood | 51 | 429 | 54 | 60 | 469 | 68 | 57 | 451 | 64 | 59 | 448 | 68 | 50 | .337 | 52 | 55 | 399 | 58 | 53 | 3 72 | 57 |
| IARMONY HILLS | 62 53 | 463 | 72 | 69 | 491 | 81 | 64 | 470 | 75 | 68 | 473 | 82 | 60 | 356 | 70 | 67 | 425 | 80 | 64 | 391 | 76 |
| TIGHLAND | 52 | 434 429 | 56 54 | 62 | 475 | 72 | 53 | 441 | 57 | 58 | 445 | 66 | 51 | 339 | 54 | 54 | 397 | 56 | 53 | 371 | 56 |
| UNGERFORD PK. | 56 | 443 | 54 61 | 52 61 | 450 | 55 | 51 | 433 | 52 | 52 | 427 | 53 | 53 | 344 | 59 | 51 | 391 | 51 | 5.2 | 371 | 56 |
| ACKSON ROAD | 64 | 469 | 75 | 65 | 473 482 | 71 76 | 59 | 456 | 67 | 61 | 455 | 72 | 71 | 376 | 85 | 60 | 411 | 69 | 66 | 395 | 79 |
| EMP MILL | 69 | 488 | 82 | 84 | 529 | 76 95 | 63 74 | 467 499 | 73 87 | 65 | 465 | 78 | 64 | 362 | 75 | 67 | 426 | 8 C | 66 | 395 | |
| ENSINGTON | 69 | 488 | 82 | 74 | 505 | 88 | 67 | 480 | 80 | 82 | 518 | 94 | 87 | 414 | 98 | 77 | 452 | 92 | 84 | 432 | 91 |
| AKE NORMANDY | 65 | 474 | 77 | 66 | 484 | 78 | 73 | 497 | 86 | 73 | 490 | 88 | 75 | 383 | 89 | 71 | 434 | E 5 | 75 | 408 | |
| AKEWOOD | 72 | 497 | 85 | 74 | 505 | 88 | 69 | 486 | 82 | 71 | 482 491 | 86 89 | 70 | 373 | 83 | 72 | 437 | 87 | 73 | 405 | 86 |
| .AYTONSVILLE | 56 | 444 | 62 | 68 | 490 | 81 | 63 | 468 | 74 | 67 | 471 | 81 | 81 53 | 395 343 | 94 | 72 | 436 | 86 | 79 | 415 | 92 |
| .CNE OAK | 60 | 456 | 68 | 62 | 473 | 71 | 59 | 456 | 67 | 62 | 455 | 72 | 47 | 333 | 58 | 60 | 411 | 69 | 58 | 380 | 65 |
| UXMANOR | 62 | 464 | 72 | 75 | 507 | 89 | 73 | 497 | 86 | 77 | 501 | 91 | 71 | 376 | 48 85 | 52 | 394 | 53 | 50 | 368 | 52 |
| YNNB ROOK | 62 | 464 | 72 | 54 | 454 | 57 | 64 | 471 | 76 | 59 | 445 | 66 | 61 | 357 | 70 | 70 | 434 | 85 | 72 | 405 | 86 |
| ARYVALE | 45 | 407 | 41 | 47 | 436 | 44 | 43 | 411 | 36 | 44 | 404 | 38 | 46 | 329 | 44 | 60 49 | 410 386 | 68 46 | 6 C | 385 | 70 |
| EADOW HALL | 54 | 438 | 59 | 57 | 463 | 64 | 55 | 445 | 60 | 57 | 440 | 62 | 46 | 329 | 44 | 56 | 402 | 61 | 47 52 | 362 370 | 4 <u>9</u> 5 9 |
| ILL CREEK TOWNE | 58 | 451 | 66 | 6.8 | 489 | 80 | 65 | 474 | 77 | 68 | 475 | 83 | 73 | 381 | 88 | 66 | 424 | 79 | 71 | 404 | 86 |
| ONOCACY | 49 | 421 | 49 | 64 | 478 | 74 | 51 | 433 | 52 | 58 | 442 | 64 | 49 | 336 | 51 | 52 | 392 | 52 | 50 | 368 | 52 |
| ONTROSE | 53 | 435 | 57 | 81 | 523 | 93 | 59 | 458 | 68 | 72 | 488 | 88 | 73 | 378 | 86 | 74 | 440 | 88 | 74 | 407 | 86 |
| EW HAMPSHIRE E. | 52 | 431 | 55 | 67 | 487 | 79 | 56 | 449 | 63 | 62 | 457 | 74 | 54 | 344 | 59 | 57 | 403 | 62 | 56 | 377 | 62 |
| . CHEVY CHASE | 60 | 456 | 68 | 64 | 479 | 75 | 63 | 468 | 74 | 65 | 466 | 79 | 63 | 361 | 74 | 67 | 426 | 80 | 67 | 395 | 79 |
| AK VIEW | 64 | 470 | 75 | 52 | 450 | 55 | 58 | 455 | 67 | 55 | 438 | 61 | 65 | 363 | 75 | 57 | 405 | 63 | 62 | 386 | 7 |
| AKLAND TERRACE | 54 | 438 | 59 | 61 | 471 | 70 | 60 | 458 | 68 | 61 | 452 | 71 | 60 | 354 | 68 | 61 | 413 | 71 | 61 | 386 | 71 |
| LNEY AGE | 58 | 452 | 66 | 67 | 486 | 79 | 63 | 469 | 75 | 67 | 471 | 81 | 66 | 367 | 79 | 62 | 414 | 71 | 65 | 392 | 71 |
| ARKH OOD | 55 54 | 441 | 60 | 56 | 459 | 61 | 44 | 415 | 39 | 49 | 420 | 49 | 59 | 354 | 68 ~ | 57 | 405 | 63 | 59 | 383 | 68 |
| INE CREST | 54 69 | 436 487 | 58 82 | 58 70 | 464 | 65 | 60 | 460 | 70 | 60 | 450 | 69 | 52 | 342 | 57 | 59 | 409 | 67 | 56 | 37ė | 63 |
| LEASANT VIEW | 60 | 457 | 69 | 61 | 494 471 | 83 70 | 63 | 468 | 74 | 68 | 475 | 83 | 62 | 358 | 71 | 64 | 420 | 76 | 64 | 390 | 75 |
| ODLE SVILLE ES | 57 | 447 | 64 | 60 | 470 | 69 | 52 58 | 434 | 52 | 56 | 439 | 62 | 48 | 333 | 48 | 55 | 400 | 59 | 52 | 371 | 56 |
| DTOMAC | 62 | 464 | 72 | 68 | 488 | 80 | 67 | 453 478 | 65 79 | 60 | 448 | 68 | 56 | 349 | 63 | 57 | 405 | 63 | 57 | 379 | 64 |
| ADNOR | 59 | 452 | 66 | 67 | 486 | 79 | 63 | 468 | 74 | 69 | 475 | 83 | 69 | 3.73 | 83 | 63 | 416 | 73 | 67 | 396 | 80 |
| ITCHIE PARK | 69 | 485 | 81 | 79 | 518 | 92 | 74 | 499 | 87 | 66 80 | 469 | 80 | 64 | 362 | 75 | 66 | 422 | 78 | 66 | 393 | 77 |
| DCK CREEK FOR. | 57 | 446 | 63 | 59 | 468 | 68 | 61 | 463 | 71 | 61 | 511 | 93 71 | 72 | 378 | 86 | 74 | 442 | 89 | 74 | 409 | 89 |
| DCK CREEK PAL. | 67 | 480 | 79 | 73 | 501 | 86 | 65 | 475 | 77 | 71 | 453 484 | 86 | 73 74 | 380 | 87 | 66 | 423 | 78 | 70 | 402 | 84 |
| DCK CREEK VAL. | 59 | 452 | 66 | 71 | 498 | 85 | 64 | 471 | 76 | 69 | 479 | 85 | 80 | 383 393 | 89 94 | 67 72 | 425 | 80 | 72 | 405 | 86 |
| DCKING HORSE | 57 | 447 | 64 | 65 | 483 | 77 | 58 | 454 | 66 | 63 | 459 | 75 | 47 | 334 | 49 | 72 56 | 437 | 87 | 78 | 414 | 92 |
| DELING TERRACE | 50 | 425 | 51 | 67 | 488 | 80 | 54 | 444 | 60 | 62 | 457 | 74 | 51 | 340 | 55 | 26 53 | 402 395 | 61 | 53 | 372 | 57 |
| DLLINGWOOD | 62 | 463 | 72 | 74 | 505 | 88 | 75 | 503 | 88 | 77 | 500 | 91 | 68 | 370 | 81 | 71 | 395 435 | 86 | 54 | 372 | 57 |
| DSEMONT | 49 | 419 | 48 | 70 | 494 | 83 | 57 | 450 | 64 | 65 | 466 | 79 | 59 | 353 | 67 | 53 | 395 | 54 | 72 56 | 404 377 | 86 |
| ADDLEBROOK | 61 | 462 | 71 | 66 | 485 | 78 | 61 | 463 | 71 | 66 | 468 | 80 | 60 | 355 | 69 | 64 | 421 | 77 | 63 | 389 | 62 74 |
| EVEN LOCKS | 60 | 456 | 68 | 66 | 484 | 78 | 73 | 498 | 87 | 71 | 481 | 85 | 69 | 371 | 82 | 73 | 439 | 87 | 72 | 404 | 86 |
| HERWOOD ES | 60 | 458 | 69 | 73 | 501 | 86 | 62 | 466 | 73 | 69 | 477 | 84 | 62 | 359 | 72 | 59 | 408 | 66 | 62 | 387 | 72 |



CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 THIRD GRADE RESULTS

| | | | | TOTAL ATTERY | r | | HDNICS | _ | | RUCTUR IALYSI | | | EAD INC | | | EADING REHENS | SICN | E . | TDTAL EADING | - |
|------------------|---------|-------------|-------------|-----------------|-------------|-------------|--------------|--------------|-------------|------------------|-------------|-------------|------------|-------------|-------------|------------------|-------------|-------------|-----------------|-------------|
| SCHOOL | SC HDDL | # TESTED | NCE MEAN | SS MEAN | PER RANK | NCE Mean | S S ME AN | PER RANK_ | NCE MEAN | SS MEAN | PER RANK | NCE MEAN | SS MEAN | PER Rank | WEAN VCE | SS Mean | PER RANK | NCE MEAN | SS MEAN | PER RANK |
| | | | - | 422 | | | 426 | 77 | 75 | 448 | 39 | 72 | 445 | 86 | 72 | 460 | 65 | 75 | 444 | 88 |
| SOMERSET | 405 | 28 | 81 | 432 | 93 | 65 48 | 378 | 48 | 50 | 380 | 51 | 54 | 400 | 59 | 58 | 422 | 64 | 53 | 385 | 55 |
| SOUTH LAKE | 564 | 58 | 58 | 389 | 65 . | | | | | 413 | 73 | 63 | 422 | 74 | 62 | 433 | 71 | 60 | 405 | 69 |
| STEDWICK | 568 | 80 | 62 | 397 | 72 | 51 | 386 | 53 70 | 62 | 416 | 74 | 66 | 430 | 79 | 66 | 444 | 77 | 66 | 422 | 79 |
| STONEGATE | 316 | 37 | 70 | 412 | 83 | 60 | 412 | | 58 | 402 | 66 | 50 | 389 | 50 | 53 | 409 | 55 | 54 | 388 | 57 |
| STRATHMORE | 822 | 26 | 55 | 384 | 60 | 55 | 397 | 60 | | 435 | 84 | 56 | 403 | 61 | 60 | 428 | 68 | 60 | 403 | 67 |
| SUMMIT HALL | 563 | 49 | 64 | 401 | 75 | 53 | 391 | 56 50 | 70 | 390 | 58 | 53 | 396 | 56 | 55 | 415 | 60 | 54 | 389 | 58 |
| TAKOMA PARK ES | 754 | 100 | 53 | 379 | 54 | 49 | 381 | 50 67 | 54 | 403 | 67 | 61 | 417 | 71 | 62 | 433 | 71 | 62 | 410 | 72 |
| TRAVILAH | 216 | 37 | 61 | 3 96 | 71 | 58 | 407 | | 58 | | 57 | 52 | 394 | 54 | 52 | 408 | 55 | 52 | 383 | 53 |
| TWINBROOK | 206 | 55 | 53 | 380 | 55 | 49 | 381 | 50 | 53 | 388 397 | 63 | 54 | 399 | 58 | 54 | 413 | 58 | 55 | 392 | 60 |
| VIERS MILL | 772 | 49 | 56 | 386 | 62 | 54 | 394 | 58 | 56 | | | 1 - | 408 | 65 | 56 | 417 | έl | 54 | 389 | 58 |
| WASHINGTON GROVE | 552 | 51 | 55 | 384 | 60 | 50 | 382 | 50 | 54 | 390 | 58 | 58 | | 72 | | 428 | 68 | 1 * | 405 | 69 |
| WATKINS MILL | 561 | 67 | 69 | 413 | 84 | 55 | 396 | 60 | 62 | 413 | 73 | 62 | 419 | | 60 | 443 | 77 | 6C 70 | 432 | |
| WAYSIDE | 235 | 51 | 72 | 419 | 87 | 65 | 425 | 77 | 69 | 432 | 83 | 71 | 441 | 84 | 66 | 398 | 48 | 53 | 386 | . 55 |
| WELLER RDAD | 777 | 72 | 59 | 391 | 67 | 55 | 398 | 61 | 56 | 396 | 62 | 56 | 405 | 62 | 49 | 438 | 74 | 60 | 406 | 69 |
| WEST ROCKVILLE | 207 | 29 | 61 | 397 | 72 | 54 | 395 | 59 | 63 | 416 | 74 | 56 | 405 | 62 | 64 | | 24 24 | 75 | 444 | |
| WESTBROOK | 408 | 38 | 74 | 421 | 88 | 67 | 431 | 80 | 69 | 433 | 83 | 71 | 442 | 85 | 71 | 457 | | 61 | 409 | 71 |
| WESTOVER | 504 | 35 | 63 | 399 | 74 | 57 | 404 | 65 | 57 | 399 | 64 | 59 | 411 | 67 55 | 61 | 430 | 69 58 | 54 | 388 | |
| WHEATON WOODS | 788 | 48 | 56 | 386 | 62 | 49 | 381 | 50 | 55 | 394 | 61 | 52 | 395 | 5 5 | 54 | 413 | 75 | 64 | 416 | 75 |
| WHETSTONE | 558 | 67 | 65 | 405 | 79 | 56 | 400 | 62 | 63 | 416 | 74 | 65 | 426 | 76 | 64 | 439 | • - | | | |
| WODD ACRES | 417 | 31 | 74 | 423 | 89 | 65 | 425 | 77 | 67 | 426 | 80 | 73 | 446 | 86 | 70 | 456 | 83 | 72 | 438 | 79 |
| WODDF I ELD | 704 | 53 | 69 | 411 | 83 | 61 | 414 | 71 | 67 | 426 | 80 | 67 | 432 | 80 | 63 | 436 | 73 | 66 | 422 | |
| WODDL IN | 764 | 43 | 57 | 386 | 62 | 52 | 3 90 | 56 | 55 | 394 | 6 l | 57 | 407 | 64 | 58 | 421 | 64 | 58 | 399 | |
| WYNGATE | 422 | 76 | 71 | 414 | 85 | 64 | 423 | 76 | 67 | 427 | 80 | 71 | 441 | 84 | 69 | 453 | 82 | 71 | 434 | 84 |







CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 THIRD GRADE RESULTS

| İ | S NCE | PELLII SS | NG PER | _ | ANGUA (Chanic S S | | EX | ANGUA(| ION | L | FOTAL ANGUAG | | | MATH PUTAT | 10N | COI | MATH NC & J | 1PP | | TOTAL Math | |
|---|--|---|--|--|--|--|--|--|--|---|--|--|--|---|--|--|---|--|---|---|--|
| SCHOOL | MEAN | | | MEAN | | RANK | NCE MEAN | S S Me an | PER Rank | NCE MEAN | SS MEAN | PER RANK | NCE MEAN | S S ME AN | PER RANK | NCE MEAN | | PER | NCE | S S M # AN | PER |
| SOMERSET SOUTH LAKE STEOWICK STONEGATE STRATHMORE SUMMIT HALL TAKOMA PARK ES TRAVILAH TWINBROOK VIERS MILL WASHINGTON GROVE WATKINS MILL WAYSIDE WELLER ROAD WEST ROCKVILLE WESTBROOK WESTOVER WHEATON WOODS WHETSTONE WOOD ACRES WOODFIELD | 69 55 58 71 52 52 51 56 61 55 68 61 55 68 60 60 | 488 439 448 495 433 429 426 426 427 449 427 441 466 484 459 | 82 59 64 85 54 72 65 53 61 82 70 60 74 60 78 70 | 70 57 60 68 53 74 52 56 53 62 64 74 76 65 77 65 71 72 69 75 | 496 468 490 4505 449 4602 477 510 475 481 491 491 491 491 | 84 63 68 81 55 88 54 62 56 72 76 90 72 76 86 82 89 | 72 55 61 65 49 63 53 61 52 53 56 62 68 54 66 76 62 53 62 74 | 494 445 461 473 429 467 440 437 448 466 482 444 476 465 466 466 466 466 466 466 466 466 46 | 85 60 70 77 49 73 57 70 55 57 62 73 81 60 78 89 72 55 73 | 73 56 61 68 51 70 53 59 60 70 74 59 67 79 64 63 69 73 | 488 439 454 475 424 481 4307 4317 451 471 471 509 467 479 489 480 | 88 62 72 83 51 85 56 67 67 85 67 89 67 81 93 77 85 88 88 88 | 81 60 62 67 60 63 52 57 54 56 52 76 67 63 54 65 67 67 | 397 354 360 369 354 361 349 349 349 369 368 369 356 363 363 377 375 | 95 68 73 80 68 74 55 63 59 63 59 62 75 75 64 86 84 | 75 62 61 67 54 62 51 55 57 67 60 60 75 61 54 64 71 64 | 445 415 425 399 414 389 416 394 426 424 411 410 444 413 399 435 419 | 872 70 872 770 873 770 873 770 873 770 873 770 873 770 873 770 875 875 875 875 875 875 875 875 875 875 | #EAN 81 62 63 69 58 64 50 61 53 54 74 68 62 58 71 64 55 62 72 69 | 420 387 388 380 390 368 385 374 374 408 386 387 387 387 387 387 387 387 387 387 387 | 723 855 752 755 755 755 768 7167 846 746 746 746 746 746 746 746 746 746 7 |
| WOOD ACRES | 68 | 484 | 81 | 69 | 492 | 82 | 62 74 | 466 498 | 73 87 | 69 73 | 479 489 | 85 88 | 57 70 | 350 377 | 64 86 | 64 71 | 419 435 | 75 £6 | €2 72 | 3 | 87 07 |



TABLE 2

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 FIFTH GRADE RESULTS

| | | | . 1 | TOTAL | | 91 | EADING | • | RF | ADING | l | 1 | TOTAL | | | | |
|---------------------------|-------------|----------|---------|------------|----------|-----|------------|----------|------|------------|----------|----------|------------|----------|----------|------------|----------|
| 1 | | | _ | TTERY | , | | ABULA | | | REHENS | TON | | EADING | , | SF | PELLIN | lG |
| l | SCHOOL | | NCE | SS | PER | NCE | SS | PER | NCE | | PER | NCE | SS | PER | NCE | SS | PER |
| SCHOOL | | TESTED | | MEAN | | | MEAN | | MEAN | MEAN | RANK | MEAN | MEAN | RANK | MEAN | MEAN | RANK |
| | | 163160 | 112.411 | | | | | | | | | | | | | | |
| ARCOLA | 790 | 21 | 62 | 479 | 71 | 52 | 464 | 53 | 57 | 494 | 64 | 55 | 472 | 59 | 53 | 510 | 56 |
| ASHBURTON | 425 | 58 | 65 | 488 | 77 | 65 | 503 | 78 | 63 | 513 | 74 | 64 | 502 | 77 | 58 | 528 | 65 |
| AYRLAWN | 421 | 22 | 68 | 497 | 82 | 65 | 502 | 78 | 67 | 524 | 79 | 66 | 508 | 80 | 52 | 509 | 55 77 |
| BANNOCKBURN | 420 | 39 | 70 | 497 | 82 | 70 | 515 | 84 | 69 | 530 | 81 | 70 | 520 | 85 | 65 | 554 | 77 78 |
| BARNSLEY | 505 | 85 | 73 | 511 | 89 | 68 | 508 | 81 | 67 | 526 | 80 | 68 | 513 | 82 | 66 71 | 558 576 | £5 |
| BELLS MILL | 6D7 | 45 | 75 | 513 | 90 | 69 | 513 | 83 | 69. | 532 | 82 | 70 | 519 | 85 82 | 62 | 544 | 13 |
| BELMONT | 513 | 68 | 73 | 507 | 87 | 67 | 508 | 81 | 67 | 526 | 80 | 68 | 513 491 | 71 | 57 | 526 | 64 |
| BEL PRE | 780 | 41 | 67 | 494 | 8 L | 61 | 490 | 71 | 60 | 503 | 69 83 | 61 | 520 | 85 | 66 | 558 | 78 |
| BETHESOA | 401 | 69 | 75 | 511 | 89 | 70 | 516 | 84 | 70 | 534 536 | 84 | 70 71 | 523 | 86 | 64 | 552 | 76 |
| BEVERLY FARMS | 226 | 59 | 75 | 514 | 90 | 69 | 512 | 82 | 73 | 544 | 87 | 75 | 535 | 90 | 73 | 583 | 87 |
| BRADLEY | 410 | 34 | 79 | 524 | 93 | 76 | 531 | 89 | 49 | 467 | 48 | 49 | 457 | 49 | 51 | 506 | 53 |
| BROAD ACRES | 304 | 30 | 49 | 450 | 48 | 51 | 464 | 53 74 | 61 | 507 | 70 71 | 62 | 496 | 74 | 62 | 544 | 73 |
| BROOKHAVEN | 807 | 78 | 66 | 490 | 78 | 63 | 495 514 | 83 | 70 | 536 | 84 | 71 | 522 | 86 | 68 | 564 | 81 |
| BROOKMONT | 414 | 28 | 75 | 509 | 88 55 | 70 | 453 | 45 | 48 | 466 | 47 | 48 | 452 | 46 | 53 | 513 | 57 |
| BROOKVIEW | 307 | 46 | 53 | 458 | | 1 | 503 | 78 | 65 | 518 | 76 | 66 | 506 | 79 | 61 | 539 | 70 |
| BROWN STATICH | 559 | 77 | 69 | 497 | 82 95 | 66 | 529 | 88 | 74 | 548 | 88 | 75 | 539 | 91 | 70 | 573 | 84 |
| BURNING TREE | 419 | 94 | 82 | 531 | ~78 | 60 | 486 | 69 | 61 | 507 | 71 | 61 | 491 | 71 | 59 | 531 | 66 |
| BURTONSVILLE | 302 | 44 | 66 | 506 | 87 | 68 | 509 | 81 | 67 | 527 | 80 | 69 | 515 | 83 | 65 | 556 | 78 |
| C ANDLEWOOD | 508 | 71 49 | 70 | 501 | 84 | 65 | 502 | 78 | 65 | 521 | 78 | 66 | 506 | 79 | 61 | 539 | 70 |
| CANNON ROAD | 310 | 49 41 | 72 | 501 | 86 | 68 | 508 | 81 | 67 | 526 | 80 | 68 | 513 | 82 | 66 | 557 | 78 |
| CARDEROCK SP. | 604 | 41 89 | 68 | 495 | 81 | 66 | 503 | 78 | 65 | 520 | 77 | 66 | 508 | 80 | 60 | 538 | 70 |
| CASHELL | ·511 703 | 32 | 71 | 504 | 86 | 65 | 502 | 78 | 67 | 527 | 80 | 67 | 511 | 81 | 64 | 551 | 76 |
| CEDAR GROVE | 403 | 72 | 70 | 500 | 84 | 65 | 501 | 77 | 64 | 514 | 74 | 64 | 502 | 77 | 66 | 558 | 78 |
| CHEVY CHASE CLARKSBURG | 101 | 36 | 57 | 469 | 63 | 59 | 486 | 69 | 54 | 485 | 58 | 56 | 479 | 64 | 54 | 515 | 58 |
| CLOVERLY | 308 | 63 | 67 | 492 | 79 | 64 | 498 | 76 | 62 | 510 | 72 | 63 | 499 | 76 | 60 | 535 | 68 |
| COLD SPRING | 238 | 74 | 76 | 513 | 90 | 70 | 514 | 83 | 69 | 530 | 81 | 70 | 519 | 85 | 68 | 566 | 81 |
| COLLEGE GARDEN | 229 | 89 | 69 | 497 | 82 | 64 | 500 | 77 | 69 | 531 | 82 | 68 | 512 | 82 | 61 | 539 | 70 |
| CONGRESSIONAL | 218 | 32 | 62 | 481 | 72 | 54 | 472 | 59 | 57 | 495 | 64 | 56 | 476 | 62 | 59 | 532 | 67 |
| CONNECTICUT PK. | 779 | 38 | 64 | 486 | 76 | 61 | 490 | 71 | 63 | 513 | 74 | 63 | 497 | 75 | 60 | 536 | 69 |
| CRESTHAVEN | 808 | 44 | 67 | 493 | 80 | 68 | 509 | 81 | 66 | 523 | 78 | 67 | 513 | 82 | 60 | 537 | 69 |
| DAMASCUS ES | 702 | 72 | 65 | 488 | 77 | 61 | 491 | 72 | 61 | 506 | 70 | 61 | 492 | 72 | 59 | 534 559 | 68 79 |
| DARNESTOWN | 351 | 63 | 76 | 517 | 91 | 68 | 509 | 81 | 70 | 536 | 84 | 70 | 520 | 85 | 66 | 541 | 71 |
| OIAMOND | 570 | 96 | 71 | 503 | 85 | 66 | 503 | _ | 65 | 519 | 77 | 66 | 507 | 80 77 | 61 | 538 | 70 |
| DUFIEF | 241 | 74 | 70 | 5 00 | | 66 | 503 | 78 | 63 | 514 | 74 | 65 | 502 499 | 76 | 61 | 538 | 70 |
| FAIRL AND | 303 | 84 | 65 | 487 | | 66. | 503 | | 62 | 508 | 71 | 70 | 519 | 85 | 66 | 558 | 78 |
| FALLSMEAO | 233 | 65 | 73 | 509 | | 70 | 513 | | 69 | 531 | 82 86 | 74 | 530 | 88 | 70 | 571 | 83 |
| FARML ANO | 219 | 47 | 80 | 526 | | 73 | 522 | | 73 | 543 | 79 | U5 | 303 | 78 | 62 | 545 | 73 |
| FIELDS ROAD | 566 | 49 | 64 | 486 | | 62 | 493 | | 66 | 524 520 | 77 | 65 | 505 | 79 | 59 | 533 | 67 |
| FLOWER VALLEY | 506 | 94 | 66 | 492 | | 64 | 499 | • | 65 | 514 | 74 | 65 | 505 | 79 | 63 | 546 | 73 |
| FOREST GROVE | 768 | 23 | 71 | 503 | | 67 | 506 | _ | 63 | 499 | 66 | 62 | 493 | 72 | 56 | 521 | 61 |
| FOREST KNOLLS | 803 | 43 | 65 | 487 | | 65 | 500 | | 68 | 530 | 81 | 68 | 515 | 83 | 53 | 512 | 57 |
| FOUR CORNERS | 763 | 51 | 69 | 500 | | 67 | 506 | | 61 | 507 | 71 | 61 | 493 | 72 | 63 | 548 | 74 |
| FOX CHAPEL | 106 | 79 | 66 | 492 | | 61 | 489 483 | . – | 61 | 508 | 71 | 60 | 491 | 71 | 54 | 513 | 57 |
| GAITHERSBURG ES | 553 | 82 | 63 | 482 | | 63 | 496 | | 65 | 519 | 77 | 65 | 503 | 78 | 68 | 568 | 82 |
| GALWAY | 313 | 38 | 68 | 493 496 | | 65 | 501 | - | 65 | 522 | 78 | 66 | 507 | 80 | 62 | 544 | 73 |
| GARRETT PARK | 204 | 27 | 68 | 770 | 02 | 1 " | JUL | • • | 1 " | | . • | 1 | · | | ī | | |

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AR AY 8A 8A 8 E 8 E BE ΒE 8R 8R 8R 8 R 8R 8R BU 80 CA CA CA CA CE CL CL COL CO CO CO CRI DA DI DUI FA FA FAI FL FOR FOR FOX GA 1 GAL

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 FIFTH GRADE RESULTS

| | | ANGUA Chan i | | 1 | NGUA RESS | | | TOTAL ANGU A | GF. | COM | MATH | ION. | (0) | HATH S SI | AD D | | TOTAL | | | FEREN | |
|-----------------|-----|-----------------|-----|------|--------------|----------|----------|-----------------|---------|-------|------------|------|------------|--------------|------|------|------------|------|------|--------------|----------|
| | NCE | SS | PER | NCE | SS | PER | NCE | SS | PER | ľ | | | | | | | MATH | | | SKILLS | _ |
| SCHOOL | | ME AN | | | MEAN | | | MEAN | | NCE | SS MEAN | PER | NCE | SS MEAN | PER | NCE | | PER | NCE | 5.5 | PER |
| | | | | 1 | 1 | ******** | | | IV MITT | IICAN | TIC AIN | NAMA | TEAN | MEAN | KANN | MEAN | MEAN | KANK | HEAN | MEAN | KAN |
| ARCOLA | 57 | 527 | 64 | 62 | .\$533 | 75 | 61 | 523 | 70 | 63 | 469 | 74 | 68 | 496 | 80 | 67 | 482 | 78 | 69 | 539 | 83 |
| ASHBURTON | 62 | 542 | 73 | 66 | 544 | 80 | 66 | 539 | 79 | 59 | 457 | 65 | 65 | 490 | 76 | 63 | 474 | 73 | 63 | 520 | 74 |
| AYRLAWN | 68 | 559 | 81 | 72 | 5/60 | 86 | 73 | 558 | 87 | 65 | 476 | 78 | 66 | 497 | 81 | 67 | 488 | 82 | 69 | 538 | |
| 8 ANNO CKBURN | 63 | 545 | 74 | 70 | 557 | 85 | 69 | 545 | 82 | 61 | 463 | 70 | 67 | 495 | 80 | 65 | 479 | 76 | 71 | | 82 |
| BARNSLEY | 75 | 579 | 89 | 73 | 564 | 87 | 76 | 572 | 91 | 7 i | 488 | 84 | 72 | 509 | 87 | 73 | 499 | 88 | | 544 | 85 |
| BELLS MILL | 82 | 598 | 93 | 72 | /560 | 86 | 79 | 579 | 93 | 73 | 493 | 87 | 67 | 496 | 80 | 72 | 493 | 85 | 70 | 541 | 84 |
| BELMONT | 81 | 595 | 93 | 72 | 563 | 87 | 79 | 580 | 93 | 65 | 474 | 77 | 73 | 511 | 88 | – | 493 491 | | 71 | 544 | 85 |
| BEL PRE | 69 | 560 | 82 | 68 | 548 | 82 | 70 | 551 | 84 | 69 | 485 | 83 | 67 | | | 70 | – | 84 | 72 | 547 | 86 |
| 8ETHE SDA | 71 | 566 | 84 | 75 | . 571 | 89 | 76 | 569 | 90 | 69 | 482 | 81 | | 495 | 80 | 70 | 489 | 82 | 70 | 539 | 83 |
| BEVERLY FARMS | 74 | 576 | 88 | 70 🔻 | 555 | 85 | 74 | 565 | 89 | 71 | 488 | 84 | 74 | 514 | 89 | 73 | 497 | 87 | 70 | 541 | 84 |
| BRADLEY | 78 | 589 | 91 | 76 | 574 | 90 | 79 | 584 | 94 | | | | 75 | 515 | 89 | 75 | 501 | 89 | 72 | 548 | 86 |
| BROAD ACRES | 55 | 520 | 60 | 52 | 502 | 55 | 54 | 502 | | 71 | 492 | 86 | 75 | 516 | 90 | 75 | 504 | 90 | 72 | 547 | 86 |
| BROOKHAVEN | 71 | 569 | 85 | 65 | 540 | 79 | | | 57 | 48 | 432 | 47 | 46 | 446 | 43 | 47 | 439 | 45 | 52 | 487 | 55 |
| BROOK MONT | 69 | 562 | 83 | 7,5 | 570 | 89 | 70 75 | 551 | 84 | 64 | 471 | 75 | 61 | 481 | 70 | 64 | 476 | 74 | 64 | 521 | 75 |
| 8ROOK VIEW | 58 | 530 | 66 | 5.0 | 497 | 51 | 54 | 563 | 89 | 70 | 486 | 83 | 71 | 505 | 85 | 73 | 495 | 86 | 71 | 544 | 85 |
| BROWN STATION | 66 | 552 | 78 | 68 | 549 | 82 | | 503 | 57 | 62 | 465 | 71 | 51 | 458 | 52 | 56 | 459 | 62 | 52 | 488 | 56 |
| BURNING TREE | 79 | 590 | 92 | 78 | | | 69 | 546 | 82 | 68 | 481 | 81 | 69 | 501 | 83 | 69 | 490 | 83 | 68 | 534 | 81 |
| BURTONSVILLE | 68 | 558 | 81 | · · | 583 | 92 | 82 | 589 | 95 | 76 | 503 | 91 | 80 | 53l | 94 | 80 | 517 | 55 | 76 | 55 7 | 89 |
| CANDLEWOOD | 68 | 559 | 81 | 69 | 553 | 84 | 71 | 552 | 85 | 59 | 459 | 67 j | 66 | 493 | 78 | 63 | 477 | 75 | 68 | 534 | 8 L |
| CANNON ROAD | | | | 93 | 553 | 84 | 71 | 554 | 86 | 67 | 479 | 80 | 74 | 511 | 88 | 72 | 494 | 85 | 69 | 5 3 7 | 82 |
| CARDEROCK SP. | 72 | 570 | 86 | 70 | 557 | 85 | 74 | 563 | 89 | 63 | 469 | 74 | 69 | 503 | 84 | 88 | 486 | 18 | 66 | 5 3 U | 79 |
| CASHELL | 69 | 560 | 82 | 70 | 555 | 85 | 72 | 555 | 86 | 67 | 479 | 80 | 71 | 505 | 85 | 70 | 490 | 83 | 67 | 532 | 80 |
| CEDAR GROVE | 63 | 543 | 73 | 65 | 540 | 79 | 66 | 536 | 77 | 68 | 481 | 8 f | 64 | 488 | 75 | 67 | 485 | 80 | 63 | 519 | 74 |
| | 67 | 555 | 79 | 74 | 57L | 89 | 73 | 560 | 88 | 68 | 482 | 81 | 70 | 502 | 83 | 71 | 491 | 84 | 68 | 534 | 81 |
| CHEVY CHASE | 69 | 563 | 83 | 69 | 552 | 83 | 71 | 5 5 9 | 87 | 68 | 481 | 81 | 66 | 494 | 79 | 68 | 486 | 81 | 65 | 525 | 77 |
| CLARK SBURG | 63 | 545 | 74 | 60 | 524 | 70 | 63 | 530 | 74 | 51 | 439 | 52 | 5 5 | 467 | 60 | 53 | 453 | 57 | 60 | 513 | 71 |
| CLOVERLY | 72 | 569 | 85 | 66 | 542 | 80 | 70 | 552 | 85 | 62 | 466 | 72 | 65 | 491 | 77 | 65 | 478 | 75 | 71 | 545 | 85 |
| COLD SPRING | 75 | 578 | 88 | 75 | 572 | 89 | 78 | 576 | 92 | 67 | 477 | 78 | 75 | 517 | 90 | 73 | 495 | 86 | 71 | 544 | 85 |
| COLLEGE GARDEN | 66 | 553 | 78 | 67 | 546 | 81 | 68 | 546 | 82 | 64 | 471 | 75 | 69 | 500 | 82 | 67 | 485 | 80 | 68 | 534 | 81 |
| CONGRESSIONAL | 63 | 544 | 74 | 59 | 5 20 | 68 | 62 | 524 | 71 | 67 | 477 | 78 | 63 | 485 | 73 | 65 | 480 | 77 | 62 | 5 1 5 | 72 |
| CONNECTICUT PK. | 62 | 542 | 73 | 62 | 531 | 74 | 63 | 529 | 74 | 65 | 473 | 76 | 62 | 483 | 72 | 64 | 477 | 75 | 69 | 537 | 82 |
| CREST HAVEN | 72 | 568 | 85 | 67 | 545 | 81 | 70 | 552 | 85 | 63 | 468 | 73 | 64 | 487 | 75 | 64 | 477 | 75 | 67 | 531 | 83 |
| OAMASCUS ES | 67 | 554 | 79 | 63 | 534 | 76 | 67 | 5 40 | 79 | 62 | 467 | 72 | 65 | 493 | 78 | 65 | 478 | 75 | 63 | 521 | 75 |
| DARNESTOWN | 76 | 582 | 90 | 72 | 56l | 86 | 76 | 572 | 91 | 75 | 501 | 90 | 75 | 514 | 89 | 77 | 507 | 91 | 71 | 544 | 85 |
| OTAMOND | 68 | 557 | 80 | 67 | 547 | 82 | 69 | 549 | 84 | 68 | 480 | 80 | 74 | 511 | 88 | 73 | 496 | 86 | 73 | 550 | 87 |
| DUFIEF | 67 | 556 | 80 | 67 | 546 | 81 | 69 | 548 | 83 | 73 | 492 | 86 | 69 | 500 | 82 | 72 | 495 | 86 | 65 | 527 | 78 |
| FAIRLAND | 62 | 541 | 72 | 67 | 5 4 5 | 81 | 66 | 537 | 78 | 65 | 472 | 75 | 60 | 478 | 68 | 63 | 474 | 73 | 64 | 523 | 76 |
| FALLSMEAD | 73 | 572 | 86 | 72 | 562 | 87 | 75 | 565 | 89 | 66 | 478 | 79 | 71 | 507 | 86 | 70 | 493 | 85 | 72 | 545 | 85 |
| FARML AND | 80 | 593 | 92 | 74 | 568 | 88 | 80 | 581 | 93 | 78 | 506 | 92 | 77 | 520 | 91 | 80 | 513 | 94 | 76 | 558 | 89 |
| FIELDS ROAD | 64 | 547 | 75 | 66 | 543 | 80 | 67 | 540 | 79 | 57 | 454 | 63 | 61 | 481 | 70 | 60 | 468 | 68 | 67 | 531 | 80 |
| FLOWER VALLEY | 71 | 566 | 84 | 68 | 549 | 82 | 71 | 554 | 86 | 60 | 463 | 70 | 63 | 487 | 75 | 63 | 476 | 74 | 66 | 528 | 78 |
| FOREST GROVE | 72 | 571 | 86 | 66 | 544 | 80 | 71 | 555 | 86 | 69 | 483 | 82 | 69 | 499 | 82 | 71 | 491 | 84 | 63 | 520 | 74 |
| FOREST KNOLLS | 67 | 556 | 80 | 63 | 533 | 75 | 67 | 539 | 79 | 63 | 469 | 74 | 64 | 490 | 76 | 65 | 479 | 76 | 67 | 534 | 81 |
| FOUR CORNERS | 63 | 543 | 73 | 70 | 555 | 85 | 68 | 546 | 82 | 68 | 480 | 80 | 71 | 506 | 86 | 71 | 493 | 85 | 66 | 52 7 | 78 |
| FOX CHAPEL | 67 | 556 | 80 | 63 | 534 | 76 | 66 | 541 | 80 | 65 | 475 | 77 | 64 | 489 | 76 | 66 | 482 | 78 | 64 | | 78 75 |
| GAITHERSBURG ES | 62 | 540 | 72 | 66 | 542 | 80 | 65 | 536 | 77 | 57 | 455 | 64 | 64 | 490 | 76 | 62 | 472 | 71 | - • | 522 | |
| GALWAY | 67 | 556 | 80 | 67 | 545 | 81 | 69 | 547 | 83 | 60 | 463 | 70 | 64 | 489 | 76 | 64 | 475 | 73 | 64 | 523 | 76 |
| GARRETT PARK | 64 | 546 | 75 | 68 | 549 | 82 | 68 | 543 | 81 | 62 | 468 | 73 | 68 | 707 | 83 | 07 | 417 | 7.5 | 67 | 532 525 | 80 77 |

4.7

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 FIFTH GRADE RESULTS

| | | | | | | <u> </u> | | | r · | | | Γ | | | | | |
|-------------------------|------------|-----------|----------|--------------------|----------|----------|------------|------------------|------|------------|----------|----------|------------|----------|------|------------|-------------|
| | ı | | 1 | TOTAL | | R | EADING | • | | EADING | | | TOTAL | | • | 151111 | c |
| | | | B/ | ATTERY | 1 | VO | CABUL | | | REHENS | | 1 | EADING | _ | | PELLIN | G PER |
| | SCHOOL | # | NC E | SS | PER | NCE | SS | PER | NCE | | PER | NCE | | PER | NCE | SS MEAN | |
| SCHOOL | # | TESTED | MEAN | MEAN | RANK_ | MEAN | MEAN | RANK | MEAN | ME AN_ | RANK | MEAN | MEAN | KANK | MEAN | MEAN | KANK |
| | | | | 501 | 0.4 | 40 | 513 | 83 | 64 | 516 | 75 | 67 | 508 | 80 | 62 | 544 | 73 |
| GEORGETOWN HILL | 221 | 66 | 72 | 504 | 86 83 | 69 | 495 | 74 | 64 | 516 | 75 | 64 | 502 | 77 | 61 | 541 | 71 |
| GEORGIAN FOREST | 786 | 55 | 70 | 498 491 | 79 | 64 | 497 | 75 | 62 | 510 | 72 | 63 | 497 | 75 | 58 | 528 | 65 |
| GERMANT OWN | . 102 | 74 | 66 | | | 57 | 479 | 64 | 55 | 489 | 61 | 56 | 476 | 62 | 52 | 508 | 54 |
| GLEN HAVEN | 767 | 69 | 56 62 | 467 47 9 | 62 71 | 57 | 479 | 64 | 58 | 496 | 65 | 58 | 482 | 66 | 56 | 523 | 62 |
| GLENALL AN | 817 512 | 48 97 | 66 | 489 | 78 | 67 | 506 | 80 | 62 | 509 | 72 | 65 | 502 | 77 | 63 | 549 | 75 |
| GREENWOOD | 797 | 67 | 54 | 462 | 58 | 52 | 466 | 55 | 54 | 484 | 58 | 53 | 469 | 57 | 48 | 492 | 46 |
| HARMONY HILLS | 774 | 86 | 59 | 475 | 68 | 56 | 477 | 63 | 55 | 488 | 60 | 56 | 475 | 6 l | 59 | 533 | 67 |
| HIGHLAND | 784 | φ6 45 | 60 | 475 | 68 | 58 | 483 | 67 | 59 | 500 | 67 | 59 | 486 | 68 | 56 | 522 | 62 |
| HIGHLAND VIEW | 214 | 67 | 64 | 485 | 75 | 64 | 497 | 75 | 63 | 511 | 73 | 64 | 499 | 76 | 55 | 517 | 59 |
| HUNGERFORD PK. | 305 | 86 | 67 | 493 | 80 | 65 | 501 | 77 | 64 | 516 | 75 | 64 | 502 | 77 | 58 | 531 | 66 |
| JACKSON ROAD | 805 | رن ر40 | 71 | 505 | 86 | 66 | 506 | 80 | 65 | 520 | 77 | 66 | 509 | 81 | 64 | 552 | 76 |
| KEMP MILL KENSINGTON | 751 | 28 | 75 | 513 | 90 | 63 | 497 | | 67 | 525 | 79 | 66 | 508 | 80 | 64 | 553 | 76 |
| LAKE MORMANDY | 231 | √69 | 76 | 516 | 91 | 72 | 519 | 85 | 72 | 544 | 87 | 73 | 529 | 88 | 70 | 573 | 84 |
| LAKEWOOD | 209 | 49 | 69 | 498 | 83 | 69 | 513 | 83 | 67 | 527 | 80 | 69 | 516 | 84 | 59 | 534 | 68 |
| LAYTONSVILLE | l 5í | 88 | 74 | 511 | 89 | 67 | 506 | 80 | 65 | 519 | 77 | 66 | 507 | 80 | 62 | 544 | 73 |
| LONE OAK | 205 | 50 | 56 | 468 | 63 | 59 | 484 | 68 | 55 | 489 | 61 | 57 | 480 | 64 | 52 | 509 | 55 |
| LUXMANOR | 220 | 41 | 82 | 532 | 95 | 75 | 527 | 88 | 74 | 549 | 88 | 76 | 537 | 90 | 68 | 565 | 81 |
| LYNNB ROOK | 409 | 21 | 62 | 481 | 72 | 67 | 505 | 79 | 64 | 518 | 76 | 65 | 506 | 79 | 54 | 516 | 59 |
| MARYVALE | 210 | - 56 | 45 | 441 | 41 | 46 | 449 | 42 | 45 | 457 | 4.2 | 45 | 445 | 41 | 45 | 483 | 41 |
| MEADOW HALL | 212 | 142 | 61 | 478 | 70 | 62 | 492 | 73 | 59 | 499 | 66 | 60 | 489 | 70 | 55 | 520 | 6 l |
| MILL CREEK TOWNE | 556 | 72 | 66 | 488 | 77 | 61 | 489 | 71 | 59 | 499 | 66 | 60 | 488 | 69 | 61 | 541 | 71 |
| MONOC AC Y | 652 | 33 | 53 | 460 | 56 | 57 | 481 | 66 | 51 | 476 | 53 | 54 | 471 | 58 | 54 | 514 | 58 |
| MONTROSE | 225 | 24 | 59 | 473 | | 53 | 468 | 57 | 58 | 498 | 66 | 57 | 477 | 62 | 54 | 515 | 58 |
| N. CHEVY CHASE | 415 | 40 | 71 | 503 | 85 | 71 | 519 | 85 | 68 | 527 | 80 | 70 | 521 | 85 | 64 | 552 | 76 57 |
| OAK VIEW | 766 | 8/3 | 54 | 462 | 58 | 52 | 467 | | 55 | 488 | 60 | 54 | 472 | 59 | 53 | 512 | 60 |
| OAKLAND TERRACE | 769 | 6 l`\ | 63 | 484 | 74 | 65 | 502 | | 62 | 510 | 72 | 64 | 500 | 76 | 55 | 518 541 | 71 |
| OLNEY | 502 | 63 (| 70 | 500 | 84 | 66 | 504 | | 65 | 521 | 78 | 66 | 508 | 80 | 61 | | 70 |
| PAGE | 312 | 40 📜 | 64 | 486 | 76 | 58 | 483 | | 60 | 505 | 70 | 60 | 488 | 69 | 60 | 538 518 | 60 |
| PARKWOOO | 783 | 43 | 63 | 483 | 74 | 64 | 499 | | 64 | 518 | 76 | 64 | 502 | 77 | 55 | 519 | 60 |
| PINE CREST | 761 | 58 \ | 57 | 468 | 63 | 57 | 479 | | 58 | 498 | 66 | 58 | 484 | 67 65 | 53 | 511 | 56 |
| PINEY BRANCH | 749 | 122 | 55 | 465 | 60 | 57 | 480 | | 57 | 495 | 64 | 57 | 481 505 | 79 | 60 | 537 | 69 |
| PLEASANT VIEW | 765 | 29 | 64 | 487 | | 66 | 506 | | 63 | 514 | 74 | 65 | 489 | 70 | 57 | 526 | 64 |
| POOLESVILLE ES | 153 | 82 | 61 | 478 | | 62 | 492 | | 59 | 500 | 67 | 60 | 525 | 87 | 66 | 556 | 78 |
| POTOMAC | 601 | 82 | 75 | 514 | | 74 | 526 | | 69 | 533 | 83 | 72 | 538 | 90 | 62 | 544 | 73 |
| RADNOR | 416 | 15 | 74 | 507 | _ | 75 | 529 | | 75 | 549 | 88 | 76 75 | 537 | 90 | 67 | 559 | 79 |
| RITCHIE PARK | 227 | 66 | § 77 | 516 | | 76 | 530 | | 74 | 547 | 88 | 67 | 512 | 82 | 56 | 521 | 61 |
| ROCK CREEK FOR. | 773 | 46 | 67 | 493 | | 66 | 505 | | 66 | 523 | 78 73 | 63 | 500 | 76 | 58 | 529 | 65 |
| ROCK CREEK PAL. | 795 | 47 | 66 | 489 | | 63 | 494 | | 62 | 512 | 73 79 | 67 | 511 | 81 | 63 | 547 | 74 |
| ROCK CREEK VAL. | 819 | 59 🗇 | 75 | 513 | | 66 | 504 | | 66 | 524 | 55 | 52 | 465 | 54 | 52 | 510 | 56 |
| ROCKING HORSE | 785 | 43 | 53 | 459 | | 51 | 464 | | 53 | 480 520 | 99 81 | 1 71 | 522 | 86 | 68 | 563 | 80 |
| ROLLINGWOOD | 411 | 33 | 71 | 504 | | 73 | 523 | | 68 | 529 497 | 65 | 57 | 480 | 64 | 56 | 521 | 61 |
| ROSEMONT | 555 | 40 | 58 | 471 | | 55 | 473 506 | | 65 | 520 | 77 | 66 | 509 | | 64 | 551 | 76 |
| SADDLEBROOK | 821 | 41 | 71 | 502 | _ | 76 | 531 | | 72 | 544 | 87 | 74 | 535 | 90 | 68 | 566 | 81 |
| SEVEN LOCKS | 603 | 45 | 77 | 520 | | 62 | 497 | | 62 | 510 | 72 | 63 | 496 | | 59 | 534 | 68 |
| SHERWOOD ES | 501 | 77 | 65 | 487 | | 75 | 528 | | 74 | 549 | 88 | 75 | 537 | | 67 | 562 | 80 |
| <u> </u> | 405 | 49 | 79 | 5 2 2 | . 45 | ' | . ,20 | , o a | '* | 747 | 50 | 1 . | | | 1 | _ | |
| LDIC. | • | | • | | | - | | | | | | | | | | | |

υ 51

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 FIFTH GRADE RESULTS

| | | | | | | | | | | | | | 7 | | | | | | | | |
|--------------------------|------------|----------------------|----------|----------|----------------------|----------|----------|----------------------|--------------|-------------|------------|-------------|-------------|------------|-------------|-------------|---------------|-------------|-------------|----------------|-------------|
| | | ANGUA Chani SS | | | ANGUA PRESS SS | | | TOTAL Angua Ss | | | HATH | | 1 | MATH | | | TGTAL MATH | | | ERENC KILLS | S |
| SCHOOL | | MEAN | | | MEAN | | | MEAN | P ER RANK | NCE MEAN | SS MEAN | PER RANK | NCE MEAN | SS MEAN | PER RANK | NCE MEAN | SS MEAN | PER Rank | NCE MEAN | SS MEAN | PER RANI |
| GEORGETOWN HILL | 72 | 569 | 85 | 69 | 553 | 84 | 73 | 558 | 87 | 67 | 478 | 79 | 75 | 515 | 89 | 73 | 496 | 86 | 73 | 549 | 86 |
| GEORGIAN FOREST | 69 | 562 | 83 | 63 | 535 | 76 | 68 | 543 | 81 | 71 | 488 | 84 | 68 | 498 | 81 | 71 | 492 | 84 | 72 | 546 | 85 |
| GERMANTOWN GLEN HAVEN | 63 | 545 | 74 | 60 | 526 | 72 | 63 | 528 | 73 | 70 | 484 | 82 | 67 | 495 | 80 | 70 | 488 | 82 | 65 | 524 | 76 |
| GLENALLAN | 56 | 5 2 5 | 63 | 55 | 509 | 60 | 56 | 508 | 61 | 56 | 451 | 61 | 57 | 471 | 63 | 57 | 461 | 63 | 57 | 503 | 65 |
| GREENWOOD | 63 65 | 5 4 5 | 74 | 62 | 530 | 74 | 64 | 533 | 76 | 60 | 461 | 68 | 60 | 478 | 68 | 60 | 468 | 68 | 61 | 513 | 71 |
| HARMONY HILLS | 56 | 550 523 | 77 61 | 66 55 | 542 | 80 | 67 | 541 | 80 | 60 | 461 | 68 | 62 | 483 | 72 | 62 | 472 | 71 | 63 | 520 | 74 |
| HIGHL AND | 5 7 | 52 <i>5</i> | 63 | 58 | 509 | 60 | 56 | 508 | 61 | 53 | 444 | 56 | 57 | 471 | 63 | 55 | 458 | 61 | 58 | 505 | 66 |
| HIGHLAND VIEW | 58 | 529 | 65 | 62 | 519 | 67 | 58 | 516 | 66 | 62 | 465 | 71 | 60 | 479 | 69 | 61 | 471 | 71 | 60 | 513 | 71 |
| HUNGERFORO PK. | 60 | 534 | 68 | 63 | 530 | 74 | 61 | 524 | 71 | 55 | 448 | 59 | 58 | 475 | 66 | 57 | 461 | 63 | 62 | 518 | 73 |
| JACKS EN ROAD | 64 | 547 | 75 | 68 | 532 548 | 75 82 | 62 | 528 | 73 | 63 | 468 | 73 | 63 | 487 | 75 | 64 | 477 | 75 | 63 | 521 | 75 |
| KEMP MILL | 74 | 576 | 88 | 67 | 547 | _ | 68 | 544 | 81 | 64 | 471 | 75 | 66 | 492 | 78 | 66 | 481 | 77 | 67 | 531 | 80 |
| KENSINGTON | 76 | 581 | 89 | 70 | 557 | 82 85 | 72 76 | 560 569 | 88 90 | 67 | 478 | 79 | 70 | 505 | 85 | 7 C | 491 | 84 | 69 | 538 | 82 |
| LAKE NORMANDY | 70 | 564 | 83 | 75 | 569 | 89 | 75 | 567 | 90 | 76 | 502 | 90 | 76 | 517 | 90 | 78 | 509 | 92 | 73 | 548 | 86 |
| LAKEWOOO | 68 | 559 | 81 | 72 | 561 | 86 | 72 | 55 7 | 90 87 | 69 | 482 | 81 | 75 | 515 | 89 | 73 | 497 | 87 | 75 | 5 56 | 88 |
| LAYTONSVILLE | 72 | 571 | 86 | 70 | 557 | 85 | 74 | 563 | 89 | 62 74 | 466 | 72 | 66 | 493 | 78 | 65 | 480 | 77 | 64 | 522 | 75 |
| LONE DAK | 54 | 517 | 58 | 57 | 517 | 66 | 56 | 509 | 61 | 58 | 497 | 88 | 74 | 515 | 89 | 76 | 506 | 91 | 68 | 534 | 81 |
| LUXMANOR | 79 | 590 | 92 | 84 | 602 | 95 | 85 | 601 | 96 | 77 | 455 | 64 | 55 | 468 | 60 | 57 | 461 | 63 | 59 | 507 | 67 |
| LYNNBROOK | 59 | 530 | 66 | 65 | 539 | 78 | 63 | 530 | 76 | 58 | 506 | 92 | 80 | 524 | 93 | 81 | 515 | 94 | 77 | 561 | 90 |
| MARYVALE | 51 | 510 | 53 | 46 | 483 | 41 | 48 | 486 | 46 | | 459 | 67 | 56 | 470 | 62 | 57 | 465 | 66 | 57 | 502 | 64 |
| MEAOOW HALL | 64 | 547 | 75 | 62 | 532 | 75 | 64 | 535 | 77 | 46 56 | 426 | 43 | 46 | 445 | 42 | 45 | 435 | 42 | 50 | 481 | 51 |
| MILL CREEK TOWNE | 61 | 538 | 71 | 63 | 532 | 75 | 63 | 529 | 74 | 67 | 452 478 | 62 79 | 58 | 474 | 65 | 58 | 462 | 64 | 60 | 511 | 70 |
| MONOC ACY | 54 | 518 | 58 | 53 | 504 | 57 | 54 | 501 | 56 | 55 | 449 | 60 | 68 | 497 | 81 | 69 | 486 | 81 | 67 | 532 | 80 |
| MONTROSE | 63 | 545 | 74 | 62 | 529 | 73 | 63 | 531 | 75 | 58 | 455 | 64 | 51 | 458 | 52 | 53 | 453 | 57 | 52 | 488 | 56 |
| N. CHEVY CHASE | 68 | 559 | 81 | 70 | 557 | 85 | 71 | 557 | 87 | 62 | 465 | 71 | 58 70 | 474 506 | 65 86 | 58 67 | 465 484 | 66 79 | 61 | 514 | 71 |
| OAK VIEW | 55 | 521 | 60 | 57 | 515 | 65 | 57 | 510 | 62 | 54 | 446 | 58 | 52 | 459 | 53 | 53 | 452 | 56 | 69 | 538 | 82 |
| OAKLANO TERRACE | 62 | 539 | 71 | 59 | 521 | 69 | 61 | 524 | 71 | 62 | 467 | 72 | 63 | 485 | 73 | 63 | 475 | 73 | 61 | 512 | 70 |
| OLNEY | 74 | 5 7 5 | 87 | 75 | 571 | 89 | 78 | 575 | 92 | 62 | 466 | 72 | 68 | 497 | 81 | 66 | 482 | 78 | 63 66 | 520 527 | 74 |
| PAGE | 64 | 545 | 74 | 64 | 538 | 78 | 65 | 535 | 77 | 65 | 473 | 76 | 63 | 484 | 72 | 65 | 478 | 75 | 66 | 529 | 78 79 |
| PARKHOOO | 63 | 543 | 73 | 68 | 5 50 | 83 | 68 | 545 | 82 | 52 | 442 | 55 | 62 | 483 | 72 | 57 | 463 | 65 | 65 | 526 | 77 |
| PINE CREST | 60 | 535 | 69 | 57 | 516 | 65 | 59 | 519 | 68 | 52 | 442 | 55 | 55 | 467 | 60 | 54 | 454 | 58 | 59 | 507 | 67 |
| PINEY BRANCH | 53 | 514 | 56 | 57 | 516 | 65 | 56 | 508 | 61 | 50 | 436 | 50 | 56 | 471 | 63 | 53 | 453 | 57 | 55 | 495 | 6C |
| PLEASANT VIEW | 62 | 540 | 72 | 67 | 547 | 82 | 66 | 538 | 78 | 61 | 462 | 69 | 63 | 487 | 75 | 63 | 475 | 73 | 65 | 527 | 78 |
| POOLESVILLE ES | 60 | 5 36 | 69 | 63 | 535 | 76 | 63 | 529 | 74 | 56 | 451 | 61 | 61 | 482 | 71 | 60 | 466 | 67 | 65 | 525 | 77 |
| POTOMAC | 71 | 568 | 85 | 73 | 566 | 88 | 75 | 565 | 89 | 72 | 492 | 86 | 73 | 509 | 87 | 74 | 500 | 88 | 71 | 545 | 85 |
| RAONOR | 68 | 557 | 80 | 73 | 566 | 88 | 73 | 560 | 88 | 58 | 457 | 65 | 77 | 517 | 90 | 69 | 486 | 81 | 76 | 559 | 89 |
| RITCHIE PARK | 73 | 574 | 87 | 77 | 579 | 91 | 78 | 577 | 92 | 68 | 481 | 81 | 73 | 510 | 87 | 72 | 495 | 86 | 74 | 552 | 87 |
| ROCK CREEK FOR. | 66 | 554 | 79 | 66 | 545 | 81 | 68 | 544 | 81 | 63 | 468 | 73 | 64 | 488 | 75 | 64 | 477 | 75 | 67 | 530 | 79 |
| ROCK CREEK PAL. | 66 | 553 | 78 | 62 | 528 | 73 | 65 | 536 | 77 | 64 | 472 | 75 | 65 | 491 | 77 | 66 | 480 | 77 | 63 | 522 | 75 |
| ROCK CREEK VAL. | 77 | 587 | 91 | 73 | 565 | 88 | 78 | 578 | 93 | 69 | 485 | 83 | 75 | 517 | 90 | 74 | 501 | 89 | 73 | 551 | 87 |
| ROCKING HORSE | 56 | 523 | 61 | 52 | 500 | 54 | 54 | 503 | 57 | 52 | 442 | 55 | 53 | 462 | 56 | 53 | 452 | 56 | 53 | 490 | 57 |
| ROLLINGWOOO | 69 | 562 | 83 | 73 | 564 | 87 | 73 | 561 | 88 | 64 | 470 | 74 | 67 | 498 | 81 | 67 | 483 | 79 | 70 | 539 | 83 |
| ROSEMONT | 60 | 536 | 69 | 62 | 531 | 74 | 62 | 528 | 73 | 55 | 449 | 60 | 57 | 472 | 64 | 57 | 460 | 62 | 63 | 520 | 74 |
| SAOOLEBROOK | 72 | 573 | 87 | 68 | 550 | 83 | 72 | 561 | 88 | 63 | 467 | 72 | 71 | 506 | 86 | 68 | 485 | 80 | 70 | 542 | 84 |
| SEVEN LOCKS | 72 | 570 | 86 | 74 | 567 | 88 | 75 | 567 | 90 | 72 | 491 | 86 | 78 | 524 | 93 | 76 | 507 | 91 | 75 | 557 | 89 |
| SHERWOOD ES | 65 71 | 550 | 77 | 65 | 539 | 78 | 66 | 540 | 79 | 66 | 477 | 78 | 59 | 476 | 67 | 63 | 475 | 73 | 63 | 519 | 74 |
| JOUCY 3C ! | 71 | 568 | 85 | 75 | 571 | 89 | 75 | 569 | 90 | 74 | 495 | 88 | 78 | 520 | 91 | 78 | 507 | 91 | 76 | 560 | 90 |

ERIC Full Text Provided by ERIC

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SOU STE STO STR SUMI

TRAI TWII VIE

WATE WAYS WELL WEST

WEST WEST WHEA

WOOD WOOD WYNG

TABLE 2 (continued)

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL
FALL, 1981 FIFTH GRADE RESULTS

| | | | 8/ | TOTAL ATTERY | | VO | AO I NO | ARY | COMP | EADING REHENS | EON | | OTAL EADING SS | ; PER | SI NCE | PELL II S S | NG PER |
|------------------|--------|--------|-------|-----------------|---------|-------------|------------|-------------|-------------|------------------|-------------|----|----------------------|----------|-----------|----------------|-----------|
| ££.uoot | SCHOOL | TESTEO | NCE | SS MEAN | PER | NCE MFAN | SS MEAN | PER RANK | NCE MEAN | SS MEAN | PER RANK | | | | | MEAN | |
| SC HOOL | | 163160 | TILAN | HE AIR | INDIAN. | 72.777 | | | | | _ | | | | | | |
| SOUTH LAKE | 564 | 63 | 65 | 489 | 78 | 66 | 504 | 79 | 65 | 520 | 77 | 66 | 506 | 79 | 62 | 543 | 72 |
| STEDWICK | 568 | 102 | 68 | 496 | 82 | 65 | 501 | 77 | 64 | 518 | 76 | 65 | 506 | 79 | 61 | 540 | 71 |
| STONEGATE | 316 | 46 | 69 | 500 | 84 | 69 | 511 | 82 | 66 | 522 | 78 | 67 | 512 | 82 | 62 | 542 | 72 |
| STRATHMORE | 822 | 46 | 56 | 466 | 61 | 56 | 476 | 62 | 56 | 491 | 62 | 56 | 477 | 62 | 59 | 533 | 67 |
| SUMMIT HALL | 563 | 56 | 65 | 488 | 77 | 61 | 489 | 71 | 63 | 512 | 73 | 62 | 495 | 73 | 60 | 536 | 69 |
| TRAVILAH | 216 | 53 | 67 | 490 | 78 | 61 | 489 | 71 | 66 | 523 | 78 | 64 | 501 | 77 | 63 | 547 | 74 |
| TWINBROOK | 206 | 59 | 56 | 465 | 60 | 55 | 474 | 61 | 52 | 477 | 54 | 53 | 468 | 56 | 51 | 505 | 53 |
| VIERS MILL | 772 | 50 | 64 | 485 | 75 | 56 | 477 | 63 | 59 | 501 | 67 | 58 | 483 | 66 | 58 | 530 | 66 |
| WASHINGTON GROVE | 552 | 43 | 65 | 489 | 78 | 61 | 489 | 71 | 65 | 520 | 77 | 64 | 500 | 76 | 57 | 527 | 64 |
| WATKINS HILL | 561 | 66 | 63 | 483 | 74 | 58 | 482 | 66 | 62 | 510 | 72 | 61 | 490 | 70 | 55 | 519 | 6C |
| WAYSIDE | 235 | 62 | 80 | 527 | 94 | 72 | 522 | 86 | 71 | 538 | 84 | 73 | 527 | 87 | 69 | 570 | ٤8 |
| WELLER ROAD | 777 | 57 | 56 | 465 | 60 | 58 | 481 | 66 | 56 | 490 | 61 | 57 | 478 | 63 | 50 | 499 | 53 |
| WEST ROCKVILLE | 207 | 40 | 64 | 464 | 74 | 60 | 488 | 70 | 65 | 517 | 76 | 63 | 498 | 75 | 53 | 511 | 56 |
| WESTB ROOK | 408 | 40 | 70 | 499 | 83 | 73 | 522 | 86 | 68 | 529 | 81 | 71 | 522 | 86 | 64 | 553 | 76 |
| WESTOVER | 504 | 47 | 74 | 509 | | 68 | 509 | 81 | 69 | 533 | 83 | 69 | 517 | 84 | 64 | 552 | 76 |
| WHEATON WOODS | 798 | 78 | 60 | 475 | 68 | 62 | 492 | 73 | 57 | 494 | 64 | 59 | 486 | 68 | 60 | 535 | 68 |
| WHETSTONE | 558 | 84 | 68 | 495 | | 67 | 506 | 80 | 65 | 519 | 77 | 66 | 509 | 81 | 63 | 546 | 73 |
| WOOD ACRES | 417 | 55 | 76 | 514 | | 72 | 520 | 85 | 71 | 541 | 86 | 72 | 529 | 88 | 65 | 554 | |
| WOODFIELD | 704 | 81 | 76 | 517 | | 67 | 507 | 80 | 68 | 531 | 82 | 69 | 516 | 84 | 69 | 568 | 82 |
| WOOOS IDE | 752 | 52 | 65 | 486 | | 59 | 484 | 68 | 60 | 504 | 69 | 60 | 489 | 70 | 56 | 522 | 62 |
| WYNGATE | 422 | 73 | 77 | 514 | | 74 | 526 | 87 | 73 | 548 | 88 | 75 | 536 | 90 | 66 | 557 | 78 |



CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 FIFTH GRADE RESULTS

| SCHOOL | 1 | ANGUA(CHANI(SS MEAN | S PER | NCE NCE | ANGUA(PRESSI SS MEAN | ION PER | NCE | TOTAL ANGUA(SS | PER | NCE | MATH UTATI SS | PER | NCE | SS | APP PER | NCE | TUTAL MATH SS | PER | 1 | FEREN SKILL SS | |
|---|--|---|--|--|--|--|--|---|--|---|---|---|---|--|--|-----|--|-----|---|--|--|
| SOUTH LAKE STEOWICK STONEGATE STRATHMORE STRATHMORE SUMMIT HALL TRAVILAH TWINBROOK VIERS MILL WASHINGTON GROVE WATKINS MILL WAYSIDE WELLER ROAD WEST ROCKVILLE WESTOVER WESTOVER WESTOVER WHEATON WOOOS WHETSTONE WOOD ACRES WOOD IELD WOODSIDE WYNGATE | 64 67 65 56 60 64 66 75 73 65 81 53 66 68 71 61 66 71 77 | 546 557 550 524 534 545 551 580 579 514 551 551 553 566 570 | 75 80 77 62 68 74 78 89 87 77 73 56 78 80 85 71 78 84 91 71 86 | 67 67 67 55 69 52 60 67 61 58 67 70 68 76 78 | 546 5560 560 560 560 560 560 560 560 560 5 | 81 81 83 60 79 84 54 70 80 80 94 66 81 87 85 70 82 89 88 57 90 | 67 69 68 56 64 68 58 69 72 67 73 73 62 69 76 77 | 541 549 547 508 530 545 545 541 601 509 543 557 541 548 577 524 548 577 523 | 80 84 83 61 74 82 66 82 87 80 96 61 81 87 71 83 90 92 70 91 | MEAN 56 64 67 52 63 55 60 54 76 58 58 69 51 74 71 66 | 451 472 479 4421 468 467 461 446 500 455 455 488 487 497 488 476 | RANK 61 75 80 55 73 60 72 68 58 90 62 64 65 82 73 84 88 88 78 | MEAN 63 68 66 54 65 65 66 70 76 62 66 75 74 65 75 | MEAN 486 496 496 491 487 486 482 503 517 464 483 494 5193 491 513 | 74 82 78 58 77 76 63 74 71 84 93 57 72 79 91 72 78 89 89 77 89 | | MEAN 469 486 486 454 480 477 459 471 470 476 499 4679 4679 5004 494 | | | 53AN 534 5347 519 5417 5317 5317 5317 5317 5317 5317 5317 53 | |



TABLE 3

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 EIGHTH GRADE RESULTS

| | | | | TOTAL ATTER | 4 | | EAD INC | | , ,,, | EADING Rehens | | _ | OTAL EADING | G | S | PELLII | NG |
|------------------|--------|--------|------|----------------|-----|------|---------|-----|-------|------------------|-----|------|----------------|-----|------|--------------|-----|
| | SCHOOL | L # | NCE" | SS | PER | NCE | SS | PER | NCE | | PER | NCE | SS | PER | NCE | SS | PEK |
| SCHOOL | # | TESTED | MEAN | MEAN | | MEAN | ME AN | | MEAN | MEAN | | | ME AN | | MEAN | MEAN | _ |
| BAKER | 705 | 261 | 64 | 591 | 75 | 60 | 575 | 69 | 64 | 598 | 74 | 62 | 587 | 72 | 58 | 5 9 9 | 65 |
| IANNEKER | 333 | 265 | 65 | 593 | 76 | 63 | 584 | 73 | 64 | 600 | 75 | 64 | 593 | 75 | 56 | 594 | 62 |
| ELT | 787 | 253 | 59 | 572 | 66 | 61 | 577 | 70 | 59 | 582 | 67 | 61 | 581 | 70 | 54 | 584 | 58 |
| ABIN JOHN | 606 | 272 | 76 | 631 | 90 | 71 | 612 | 85 | 70 | 624 | 84 | 71 | 620 | 86 | 61 | 613 | 71 |
| ASTERN | 775 | 141 | 60 | 577 | 68 | 60 | 574 | 68 | 59 | 581 | 66 | 60 | 578 | 68 | 54 | 583 | 57 |
| ARQUHAR | 507 | 307 | 65 | 5 9 5 | 77 | 63 | 584 | 73 | 65 | 604 | 76 | 65 | 595 | 76 | 56 | 590 | 61 |
| ROST | 237 | 362 | 73 | 622 | 88 | 71 | 614 | 85 | 69 | 618 | 82 | 71 | 617 | 85 | 64 | 624 | 75 |
| AITHERSBURG JR | 554 | 331 | 61 | 579 | 69 | 58 | 568 | 65 | 61 | 589 | 70 | 60 . | 579 | 69 | 56 | 594 | 62 |
| 100VER | 228 | 269 | 75 | 628 | 89 | 73 | 622 | 88 | 71 | 627 | 85 | 73 | 626 | 87 | 62 | 618 | 73 |
| EY | 311 | 213 | 58 | 571 | 65 | 58 | 566 | 64 | 59 | 581 | 66 | 59 | 573 | 66 | 52 | 578 | 55 |
| ING | 107 | 196 | 60 | 576 | 68 | 58 | 566 | 64 | 59 | 584 | 68 | 59 | 575 | 67 | 56 | 594 | 62 |
| EE | 818 | 383 | 62 | 585 | 72 | 60 | 576 | 69 | 63 | 597 | 74 | 63 | 588 | 73 | 55 | 590 | 61 |
| IONTGOMERY VILL. | 557 | 277 | 68 | 604 | 81 | 67 | 601 | 81 | 67 | 613 | 80 | 68 | 608 | 81 | 59 | 606 | 68 |
| IEWPORT | 792 | 202 | 59 | 572 | 66 | 58 | 566 | 64 | 60 | 586 | 69 | 59 | 577 | 68 | 54 | 586 | 59 |
| PARKL AND | 812 | 231 | 65 | 593 | 76 | 63 | 585 | 74 | 62 | 5 93 | 72 | 63 | 5 9 0 | 74 | 58 | 599 | 65 |
| OOLESVILLE HS | 152 | 133 | 60 | 575 | 67 | 59 | 570 | 66 | 59 | 581 | 66 | 59 | 576 | 67 | 54 | 584 | 5 ક |
| YLE | 428 | 414 | 77 | 640 | 92 | 74 | 628 | 89 | 75 | 642 | 89 | 76 | 638 | 91 | 67 | 635 | 79 |
| REDLAND | 562 | 274 | 68 | 604 | 81 | 65 | 594 | 78 | 66 | 607 | 78 | 66 | 601 | 79 | 58 | 599 | 65 |
| IDGEVIEW | 105 | 261 | 66 | 598 | 78 | 63 | 586 | 74 | 64 | 601 | 75 | 64 | 594 | 76 | 59 | 603 | 66 |
| LIGO | 778 | 235 | 58 | 572 | 66 | 59 | 571 | 67 | 59 | 581 | 66 | 59 | 575 | 67 | 54 | 583 | 57 |
| AKOMA PARK JR | 755 | 172 | 52 | 551 | 55 | 51 | 541 | 52 | 53 | 560 | 56 | 52 | 550 | 54 | 49 | 566 | 49 |
| ILDEN | 232 | 371 | 74 | 626 | 89 | 70 | 612 | 85 | 70 | 624 | 84 | 71 | 620 | 86 | 62 | 617 | 72 |
| ULIUS WEST | 211 | 274 | 61 | 580 | 70 | 59 | 571 | 67 | 60 | 584 | 68 | 60 | 577 | 68 | 53 | 581 | 56 |
| IESTL AND | 412 | 409 | 71 | 618 | 86 | 70 | 613 | 85 | 70 | 623 | 83 | 71 | 620 | 86 | 63 | 621 | 74 |
| HITE OAK | 811 | 307 | 69 | 611 | 84 | 68 | 602 | 81 | 69 | 621 | 83 | 69 | 614 | 84 | 58 | 600 | 65 |
| 100D | 820 | 421 | 68 | 606 | 82 | 66 | 598 | 79 | 66 | 608 | 78 | 67 | 604 | 80 | 59 | 605 | 67 |



CALIFORNIA ACHIEVEMENT TESTS RE JLTS BY SCHOOL FALL, 1981 EIGHTH GRADE RESULTS

| | MEC | ANGUA Chani | | | ANGUA(PRESS | | | TOTAL Angua(| SE | COM | MATH LTATU | ON | CON | MATH | APP | | TOTAL MATH | | | FEREN | |
|------------------|--------------|----------------|--------------|-------------|-----------------|---------------|-------------|-----------------|-------------|-------------|---------------|---------------|-----|------------|-------------|-------------|---------------|-------------|------------|------------|----------|
| SCHOOL | NC E MEAN | SS ME AN | PER R ANK | NCE MEAN | SS MEAN | P ER R ANK | NCE MEAN | SS MEAN | PER RANK | NCE MEAN | | P ER R ANK | NCE | SS MEAN | PER RANK | NCE MEAN | S S | PER RANK | NCE | SS | PER |
| BAKER | 64 | 614 | 76 | 61 | 588 | 70 | 63 | 598 | 73 | 64 | 607 | 76 | 65 | 592 | 76 | 65 | | | | | |
| BANNEKER | 62 | 608 | 73 | 63 | 596 | 73 | 63 | 602 | 75 | 65 | 611 | 78 | 63 | 588 | 74 | 65 | 597 597 | 77 | 63 | 592 | |
| BELT | 65 | 617 | 77 | 57 | 577 | 64 | 61 | 593 | 71 | 55 | 572 | 61 | 57 | 567 | 64 | 57 | | 77 | 64 | 597 | 76 |
| CABIN JOHN | 72 | 645 | 86 | 73 | 636 | 88 | 75 | 645 | 90 | 74 | 645 | 88 | 75 | 630 | 90 | | 567 | 63 | 62 | 590 | 73 |
| ASTERN | 64 | 616 | 76 | 59 | 584 | 68 | 62 | 596 | 73 | 56 | 575 | 62 | 59 | 571 | 66 | 76 50 | 637 | 90 | 71 | 620 | 85 |
| -ARQUHAR | 62 | 606 | 72 | 64 | 600 | 75 | 64 | 602 | 75 | 62 | 599 | 73 | 68 | 604 | 81 | 58 66 | 571 | 65 | 60 | 582 | 69 |
| ROST | 71 | 640 | 85 | 68 | 615 | 81 | 71 | 627 | 85 | 70 | 630 | 84 | 75 | 628 | 89 | 73 | 600 628 | 78 88 | 64 | 597 | 76 |
| SAITHERSBURG JR | 58 | 590 | 65 | 59 | 585 | 68 | 59 | 586 | 68 | 57 | 579 | 64 | 64 | 588 | 74 | 61 | 583 | 71 | 69 61 | 612 587 | 82 71 |
| 100VER | 73 | 650 | 88 | 70 | 625 | 85 | 74 | 639 | 88 | 72 | 635 | 85 | 74 | 623 | 88 | 74 | 627 | 88 | | | 85 |
| KEY | 59 | 594 | 67 | 57 | 576 | 63 | 58 | 582 | 66 | 55 | 572 | 61 | 60 | 574 | 68 | 58 | 571 | 65 | 71 59 | 621 579 | 67 |
| KING | 61 | 604 | 72 | 56 | 573 | 62 | 59 | 585 | 67 | 56 | 576 | 63 | 62 | 583 | 72 | 60 | 578 | 68 | 59 | 578 | 67 |
| .EE | 60 | 599 | 69 | 59 | 582 | 67 | 60 | 588 | 69 | 62 | 599 | 73 | 64 | 589 | 75 | 64 | 591 | 74 | 63 | 593 | 74 |
| MONTGOMERY VILL. | 65 | 618 | 77 | 64 | 603 | 76 | 66 | 610 | 79 | 63 | 600 | 73 | 69 | 605 | 82 | 66 | 601 | 79 | 66 | 602 | 78 |
| IEWPORT | 56 | 585 | 63 | 55 | 569 | 60 | 56 | 574 | 62 | 57 | 579 | 64 | 61 | 578 | 70 | 59 | 577 | 68 | 57 | 5 70 | 63 |
| PARKLANO | 68 | 632 | 82 | 62 | 594 | 72 | 66 | 610 | 79 | 61 | 594 | 71 | 66 | 596 | 78 | 64 | 594 | 76 | 61 | 587 | 71 |
| OOLESVILLE HS | 59 | 594 | 67 | 56 | 574 | 62 | 58 | 581 | 65 | 57 | 580 | 64 | 63 | 585 | 73 | 61 | 581 | 70 | 57 | 571 | 63 |
| YLE | 75 | 656 | 89 | 73 | 637 | 88 | 76 | 649 | 90 | 74 | 646 | 88 | 75 | 631 | 90 | 76 | 637 | 90 | 71 | 621 | 85 |
| REDLANO | 69 | 633 | 83 | 63 | 599 | 75 | 67 | 613 | 80 | 67 | 616 | 79 | 68 | 603 | 81 | 68 | 608 | 81 | 65 | 601 | 77 |
| IDGEVIEW | 68 | 630 | 82 | 63 | 597 | 74 | 66 | 611 | 79 | 61 | 595 | 71 | 68 | 604 | 81 | 66 | 599 | 78 | 64 | 596 | 75 |
| SL IGO | 59 | 595 | 68 | 58 | 581 | 66 | 59 | 586 | 68 | 56 | 574 | 62 | 59 | 573 | 67 | 58 | 572 | 65 | 60 | 581 | 68 |
| AKOMA PARK JR | 52 | 570 | 55 | 52 | 560 | 55 | 53 | 563 | 56 | 50 | 552 | 51 | 54 | 556 | 58 | 53 | 554 | 56 | 55 | 567 | 61 |
| ILOEN | 73 | 649 | 87 | 70 | 624 | 84 | 73 | 637 | 88 | 73 | 638 | 86 | 74 | 623 | 88 | 74 | 629 | 88 | 70 | 615 | 8.3 |
| ULIUS WEST | 62 | 608 | 73 | 56 | 571 | 61 | 59 | 585 | 67 | 60 | 590 | 69 | 64 | 590 | 75 | 63 | 588 | 73 | 60 | 583 | 69 |
| ESTL ANO | 70 | 639 | 84 | 68 | 619 | 83 | 71 | 630 | 86 | 66 | 613 | 78 | 71 | 615 | 85 | 69 | 613 | 83 | 68 | 612 | 82 |
| HITE OAK | 68 | 630 | 82 | 67 | 615 | 81 | 69 | 623 | 83 | 66 | 612 | 78 | 69 | 609 | 83 | 68 | 609 | ez | 67 | 606 | 79 |
| 1000 | 65 | 617 | 77 | 65 | 604 | 77 | 66 | 611 | 79 | 67 | 615 | 79 | 68 | 605 | 82 | 68 | 609 | 82 | 68 | 610 | 81 |



TABLE 4

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 ELEVENTH GRADE RESULTS

| | | | | TOTAL ATTER | Υ | | EAD INC | - | | EAD ING | | | TOTAL EADIN(| j | SI | PELLIN | ٧G |
|------------------|--------|---------|-----|----------------|-----|------|---------|-----|------|---------|-------|------|-----------------|------|------|-------------|------|
| | SCHOOL | | NCE | SS | PER | NCE | SS | PER | NCE | SS | PER | NCE | S S | PER | NCE | | PER |
| SCHOOL | # | TESTED. | | ME AN | | MEAN | MEAN | | MEAN | MEAN | R ANK | MEAN | ME AN | RANK | MEAN | MEAN | RANK |
| BETHESDA JH. CH. | 406 | 364 | 69 | 698 | 83 | 66 | 689 | 79 | 67 | 684 | 79 | 68 | 690 | 80 | 58 | 654 | |
| M. BLAIR | 757 | 375 | 50 | 617 | 50 | 50 | 617 | 51 | 50 | 615 | 51 | 50 | 617 | 51 | 48 | 610 | 46 |
| CHURCHILL | 602 | 456 | 73 | 716 | 88 | 68 | 698 | 81 | 69 | 694 | 82 | 70 | 699 | 63 | 63 | 679 | 74 |
| DAMAS CUS HS | 701 | 248 | 59 | 652 | 66 | 55 | 637 | 59 | 58 | 647 | 65 | 57 | 644 | 63 | 52 | 630 | 55 |
| EINSTEIN | 789 | 219 | 58 | 649 | 65 | 57 | 648 | 64 | 56 | 640 | 67 | 57 | 645 | 64 | 55 | 639 | 59 |
| GAITHERSBURG HS | 55 L | 403 | 58 | 648 | 64 | 56 | 643 | 62 | 56 | 638 | 61 | 57 | 642 | 62 | 52 | 63 0 | 55 |
| W. JOHNSON | 424 | 290 | 70 | 701 | 84 | 67 | 693 | 80 | 68 | 689 | 81 | 69 | 694 | 81 | 6,1 | 666 | 70 |
| KENNEDY | 815 | 319 | 62 | 667 | 72 | 60 | 659 | 68 | 62 | 664 | 72 | 62 | 664 | 71 | 55 | 641 | 60 |
| MAGRUDER | 510 | 280 | 65 | 680 | 77 | 62 | 671 | 73 | 62 | 664 | 72 | 63 | 669 | 73 | 60 | 662 | 68 |
| R. MONTGOMERY | 201 | 285 | 59 | 653 | 66 | 58 | 653 | 66 | 59 | 653 | 68 | 60 | 655 | 68 | 53 | 630 | 55 |
| NORTHWOOD | 796 | 317 | 61 | 660 | 69 | 59 | 655 | 67 | 59 | 650 | 66 | 50 | 655 | 68 | 56 | 646 | 62 |
| PAINT BRANCH | 315 | 308 | 64 | 673 | 75 | 61 | 665 | 70 | 63 | 667 | 73 | 63 | 668 | 73 | 56 | 647 | €2 |
| PEARY | 806 | 341 | 61 | 662 | 70 | 59 | 656 | 67 | 59 | 650 | 66 | 59 | 655 | 68 | 57 | 648 | 62 |
| POOLE SVILLE HS | 152 | 92 | 52 | 625 | 54 | 53 | 629 | 56 | 54 | 629 | 58 | 54 | 630 | 57 | 46 | 604 | 44 |
| ROCKVILLE | 230 | 385 | 66 | 684 | 79 | 63 | 673 | 73 | 65 | 675 | 76 | 65 | 677 | 76 | 59 | 658 | 67 |
| SENECA VALLEY | 104 | 440 | 63 | 669 | 73 | 60 | 661 | 69 | 62 | 663 | 72 | 62 | 664 | 71 | 57 | 648 | 62 |
| SHERWOOD HS | 503 | 323 | 58 | 648 | 64 | 57 | 647 | 63 | 59 | 650 | 66 | 58 | 650 | 66 | 54 | 636 | 57 |
| SPRINGBROOK | 798 | 463 | 65 | 679 | 77 | 64 | 678 | 75 | 64 | 670 | 74 | 65 | 676 | 76 | 61 | 668 | 70 |
| WHEATON | 782 | 275 | 54 | 633 | 58 | 53 | 629 | 56 | 53 | 625 | 56 | 53 | 628 | 56 | 51 | 625 | 53 |
| WHITMAN | 427 | 498 | 72 | 711 | 87 | 70 | 707 | 84 | 69 | 696 | 83 | 71 | 704 | 84 | 63 | 676 | 73 |
| WCODWARD | 222 | 265 | 71 | 708 | 86 | 67 | 693 | 80 | 66 | 682 | 78 | 68 | 689 | 80 | 65 | 684 | 76 |
| WOOTTON | 234 | 402 | 71 | 705 | 85 | 70 | 704 | 83 | 68 | 691 | 81 | 70 | 700 | 83 | 64 | 680 | 75 |



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CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SCHOOL FALL, 1981 ELEVENTH GRADE RESULTS

| | | ANGUA: Chan I | | _ | ANGUA(| _ | | TOTAL Angua | SE . | COMP | MATH UT ATJ | ION | CO | MATH NC & | AP P | 1 | TOTAL | | | FEREN | |
|------------------|------|------------------|------|------|--------|------|------|----------------|------|------|----------------|------|------|--------------|------|------|-------|------------|----------|----------------|----------|
| SCHOOL | NCE | SS | PER | NCE | SS | PER | NCE | SS | PER | NCE | SS | PER | NCE | SS | PER | NCF | SS | PER | NCE | SS | PER |
| SCHOOL | MEAN | ME AN | RANK | MEAN | ME AN | RANK | MEAN | MEAN | RANK | MEAN | MEAN | RANK | MEAN | MEAN | RANK | MEAN | MEAN | RANK | FEAN | ME AN | RAN |
| BETHESDA-CH. CH. | 66 | 677 | 78 | 69 | 694 | 83 | 70 | 698 | 84 | 62 | 668 | 72 | 68 | 690 | 80 | 66 | 683 | 78 | 43 | (7) | 7/ |
| M. BLAIR | 51 | 616 | 53 | 50 | 612 | 49 | 50 | 616 | 51 | 51 | 617 | 52 | 51 | 618 | 52 | 51 | 618 | 7 c 5 2 | 63 52 | 671 | 74 53 |
| CHURCHILL | 71 | 696 | 84 | 71 | 702 | 85 | 73 | 709 | 87 | 67 | 689 | 79 | 72 | 710 | 86 | 71 | 706 | 92 84 | 68 | 6 2 2 6 4 0 | 81 |
| DAMASCUS HS | 58 | 643 | 65 | 56 | 638 | 62 | 57 | 644 | 64 | 59 | 652 | 66 | 59 | 654 | 67 | 60 | 655 | 68 | 61 | 660 | 70 |
| EINSTEIN | 57 | 639 | 63 | 55 | 633 | 59 | 56 | 638 | 61 | 57 | 145 | 64 | 61 | 659 | 69 | 59 | 653 | 67 | 57 | 644 | 63 |
| GAITHERSBURG HS | 57 | 639 | 63 | 59 | 651 | 68 | 59 | 649 | 66 | 55 | 036 | 6.0 | 59 | 651 | 66 | 57 | 645 | £4 | 57 | 646 | 64 |
| W. JOHNSON | 65 | 675 | 77 | 68 | 688 | 81 | 68 | 689 | 81 | 67 | 687 | 78 | 69 | 696 | 82 | 69 | 696 | 82 | 67 | 686 | 79 |
| KENNEOY | 60 | 652 | 69 | 59 | 653 | 68 | 60 | 656 | 69 | 60 | 658 | 69 | 62 | 668 | 72 | 62 | 666 | 72 | 66 | 630 | 77 |
| MAGRUOER | 62 | 660 | 72 | 62 | 662 | 72 | 63 | 667 | 73 | 64 | 675 | 74 | 65 | 678 | 76 | 65 | 680 | 77 | 63 | 670 | 74 |
| R. MONTGOMERY | 57 | 640 | 63 | 56 | 636 | 61 | 57 | 641 | 63 | 58 | 647 | 64 | 60 | 655 | 67 | 59 | 652 | 67 | 59 | 653 | 67 |
| NORTHWOOD | 61 | 656 | 70 | 59 | 651 | 68 | 61 | 658 | 70 | 58 | 650 | 66 | 60 | 658 | 68 | 60 | 656 | 68 | 61 | 659 | 69 |
| PAINT BRANCH | 63 | 664 | 73 | 62 | 662 | 72 | 63 | 669 | 74 | 62 | 666 | 71 | 64 | 674 | 74 | 64 | 672 | 74 | €3 | 668 | 7.3 |
| PEARY | 63 | 663 | 73 | 62 | 662 | 72 | 63 | 668 | 74 | 58 | 650 | 66 | 61 | 661 | 70 | 60 | 658 | 69 | 60 | 65B | 69 |
| POOLESVILLE HS | 51 | 617 | 53 | 47 | 600 | 44 | 49 | 610 | 49 | 55 | 637 | 61 | 53 | 627 | 56 | 55 | 633 | 59 | 53 | 628 | 56 |
| SOCKAILLE | 64 | 670 | 76 | 62 | 665 | 73 | 64 | 673 | 76 | 62 | 668 | 72 | 68 | 691 | 80 | 66 | 684 | 78 | 63 | 671 | 74 |
| SENECA VALLEY | 61 | 655 | 70 | 63 | 667 | 74 | 63 | 66B | 74 | 59 | 654 | 67 | 62 | 665 | 71 | 61 | 662 | 71 | 61 | 662 | 71 |
| SHERWOOD HS | 56 | 638 | 63 | 58 | 645 | 65 | 58 | 645 | 64 | 56 | 638 | 61 | 58 | 647 | 64 | 57 | 643 | 63 | 58 | 649 | 65 |
| SPRINGBROOK | 64 | 669 | 75 | 63 | 666 | 74 | 64 | 673 | 76 | 61 | 663 | 70 | 64 | 674 | 74 | 63 | 671 | 74 | 65 | 677 | 76 |
| HEA TON | 54 | 629 | 59 | 54 | 629 | 57 | 54 | 632 | 59 | 52 | 623 | 55 | 54 | 632 | 58 | 54 | 629 | 57 | 56 | 638 | 60 |
| HITMAN | 67 | 682 | 80 | 70 | 696 | 84 | 70 | 697 | 83 | 68 | 692 | 80 | 72 | 709 | 85 | 71 | 705 | 84 | 67 | 686 | 79 |
| OUDWARD | 70 | 695 | 84 | 68 | 689 | 82 | 70 | 699 | 84 | 67 | 688 | 79 | 72 | 710 | 86 | 71 | 705 | 84 | 66 | 681 | 78 |
| HOOTTON | 64 | 667 | 75 | 66 | 679 | 78 | 66 | 679 | 78 | 67 | 687 | 78 | 71 | 706 | 84 | 70 | 702 | 83 | 65 | 679 | 77 |



Total Battery Interquartile Ranges

These figures contain bars showing the interquartile range for the Total Battery for each school. This range indicates the score (national percentile rank) of the student at the 25th and 75th percentile for a school. It shows how the middle 50 percent of the students in the school performed. This group could be considered "typical" for that school because no extreme scores are included to skew the results. Schools are presented in these figures in alphabetical order by grade. The first page for each grade follows:

Grade 3--Page 41

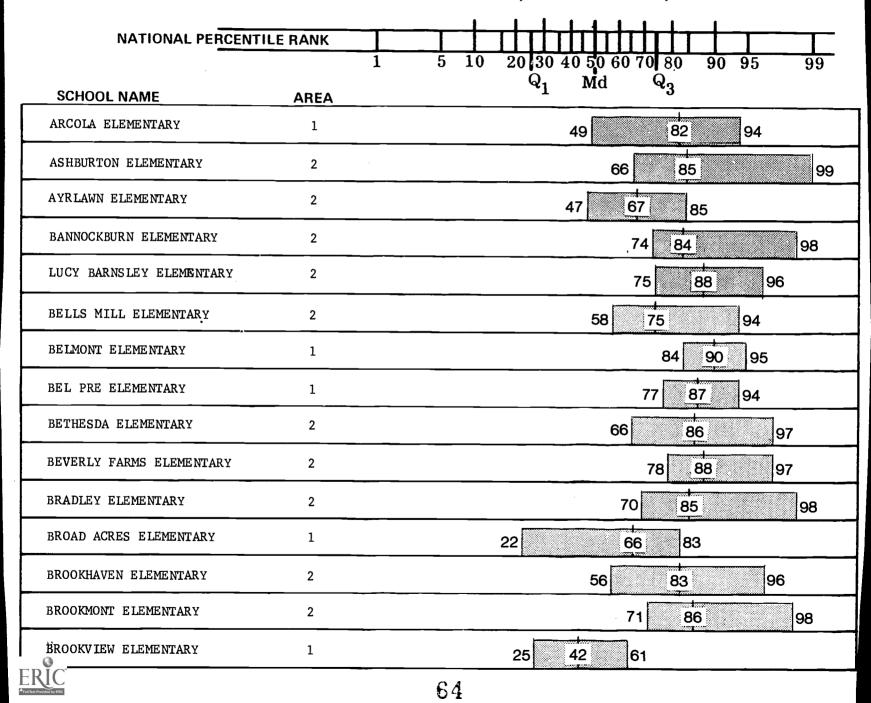
Grade 5--Page 49

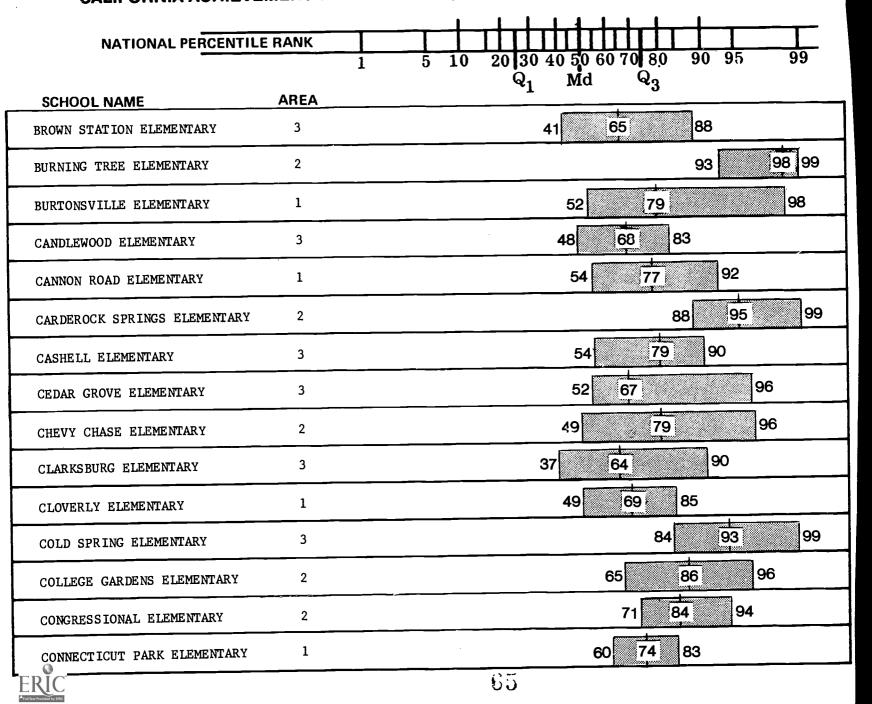
Grade 8--Page 57

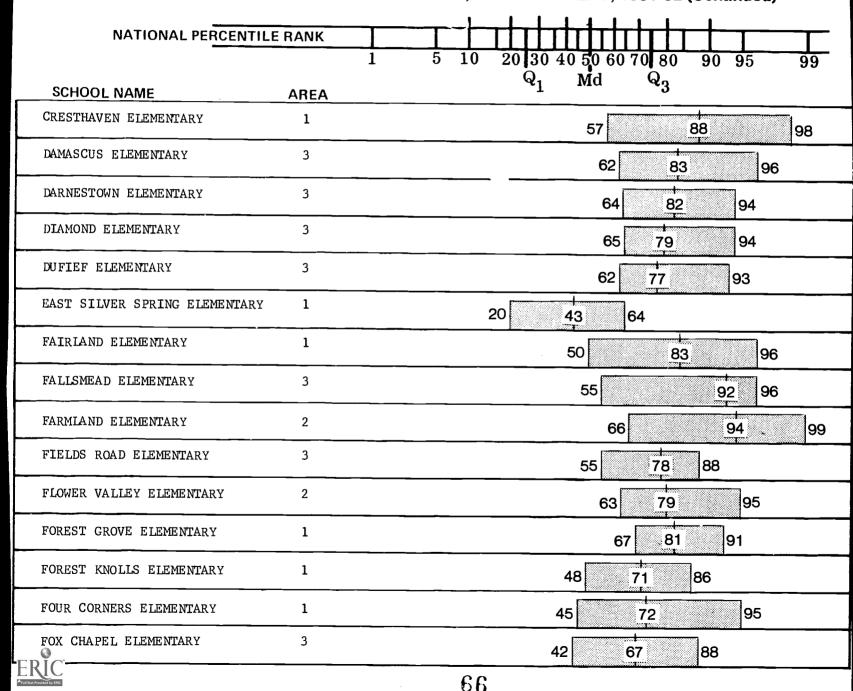
Grade 11--Page 59

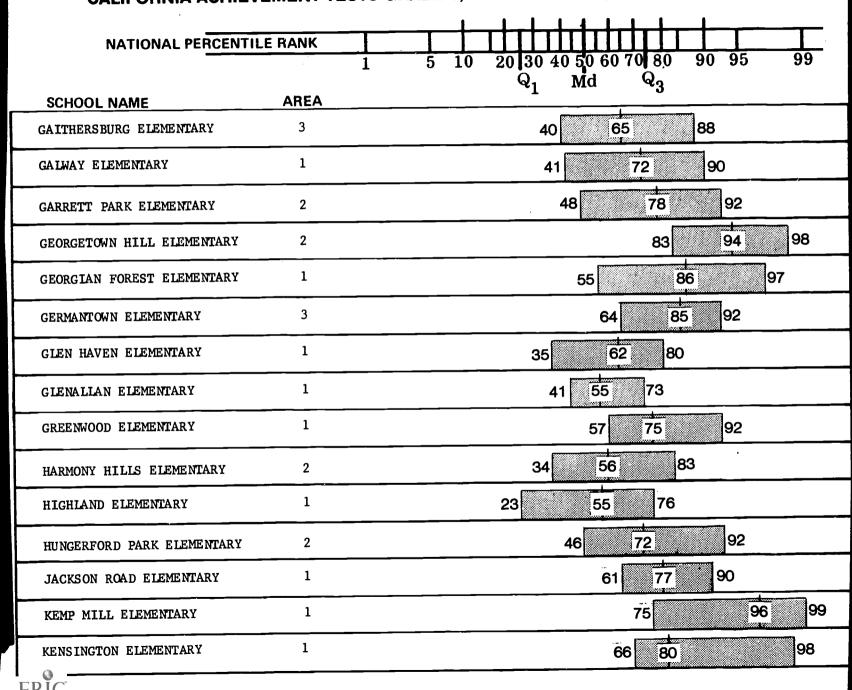
County (all grades) -- Page 61



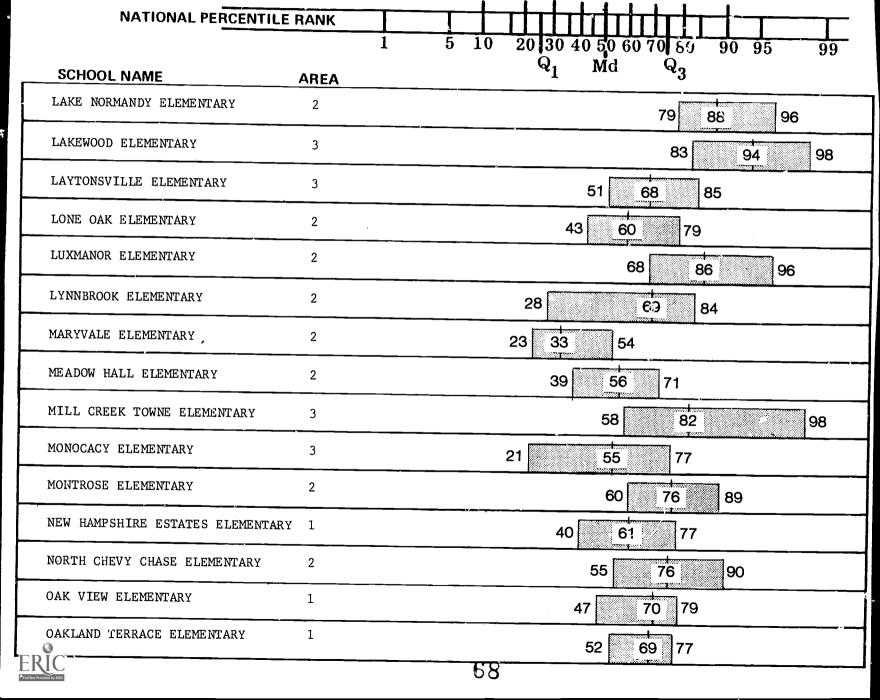








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NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) — CALIFORNIA ACHIEVEMENT TESTS GRADE 3, TOTAL BATTERY, 1981-82 (Continued) NATIONAL PERCENTILE RANK 1 5 10 20 30 40 50 60 70 80 90 95 91 Q1 Md Q3 DL NAME AREA

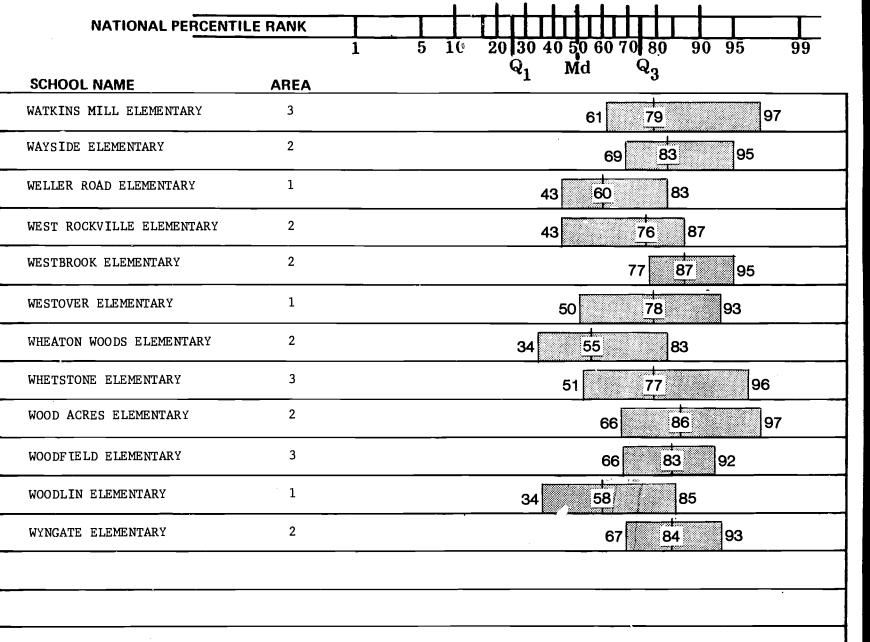
| SCHOOL NAME | AREA | $old{Q}_1$ Mid $old{Q}_3$ |
|---------------------------------|------|---------------------------|
| OLNEY ELEMENTARY | 1 | 50 74 91 |
| WILLIAM TYLER PAGE ELEMENTARY | 1 | 42 65 76 |
| PARKWOOD ELEMENTARY | 2 | 33 66 90 |
| PINE CREST ELEMENTARY | 1 | 56 83 91 |
| PLEASANT VIEW ELEMENTARY | 1 | 36 63 77 |
| POOLESVILLE ELEMENTARY | 3 | 45 67 83 |
| POTOMAC ELEMENTARY | 2 | 64 78 89 |
| RADNOR ELEMENTARY | 2 | 62 72 82 |
| RITCHIE PARK ELEMENTARY | 3 | 68 92 98 |
| ROCK CREEK FOREST ELEMENTARY | 2 | 60 73 90 |
| ROCK CREEK PALISADES ELEMENTARY | 1 | 70 . 84 96 |
| ROCK CREEK VALLEY ELEMENTARY | 2 | 66 86 97 |
| ROCKING HORSE ROAD ELEMENTARY | 1 | 41 63 85 |
| ROLLING TERRACE ELEMENTARY | 1 | 33 52 88 |
| ROLLINGWOOD ELEMENTARY | 2 | 68 86 95 |

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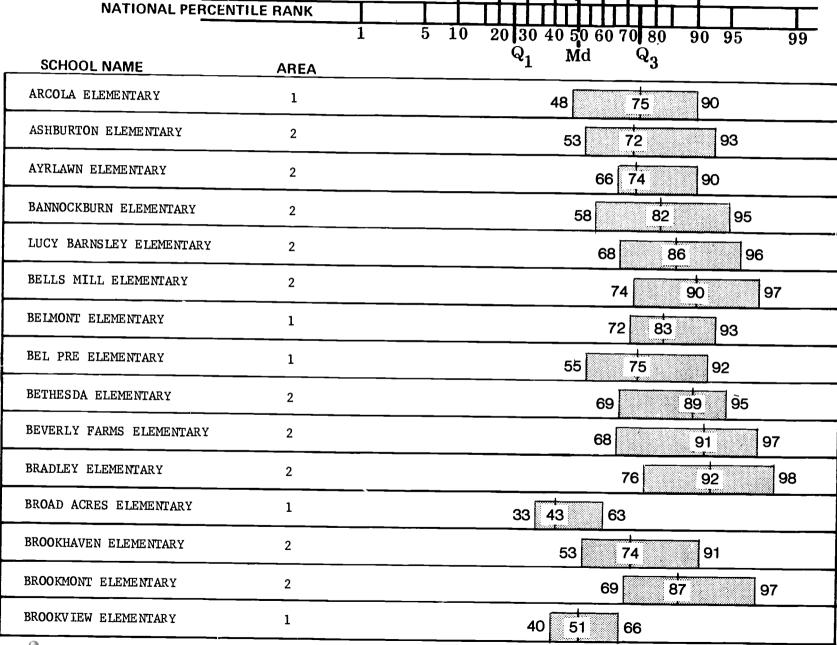
69

NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) — CALIFORNIA ACHIEVEMENT TESTS GRADE 3, TOTAL BATTERY, 1981-82 (Continued) NATIONAL PERCENTILE RANK 1 5 10 20 30 40 50 60 70 80 90 95

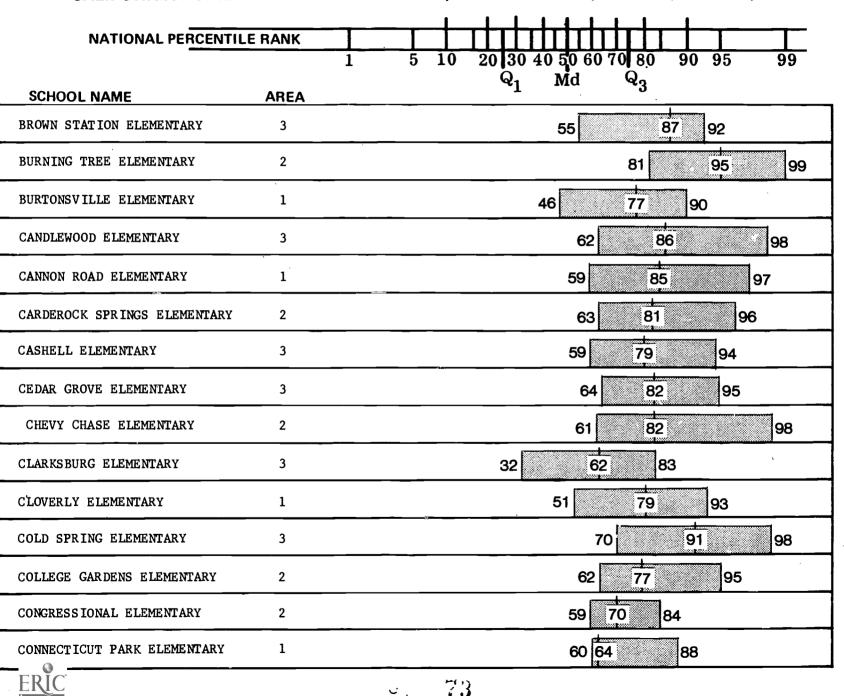
| | | $1 \qquad 5 10 20 30 40 50 60 70 80 90 95 99$ |
|-----------------------------|------|--|
| SCHOO! NAME | AREA | $old Q_1$ Md $old Q_3$ |
| ROSEMONT ELEMENTARY | 3 | 25 54 87 |
| SADDLEBROOK ELEMENTARY | 1 | 45 72 91 |
| SEVEN LOCKS ELEMENTARY | 2 | 67 84 93 |
| SHERWOOD ELEMENTARY | 1 | 49 73 91 |
| SOMERSET ELEMENTARY | 2 | 82 93 98 |
| SOUTH LAKE ELEMENTARY | 3 | 48 63 79 |
| STEDWICK ELEMENTARY | 3 | 45 74 88 |
| STONEGATE ELEMENTARY | 1 | 56 83 94 |
| STRATHMORE ELEMENTAR (| 1 | 37 48 68 |
| SUMMIT HALL ELEMENTARY | 3 | 50 71 91 |
| TAKOMA PARK ELEMENTARY | 1 | 17 50 86 |
| TRAVILAH ELEMENTARY | 3 | 50 72 86 |
| TWINBROOK ELEMENTARY | 2 | 28 51 75 |
| VIERS MILL ELEMENTARY | 1 | 33 64 75 |
| WASHINGTON GROVE ELEMENTARY | 3 | 46 62 75 |

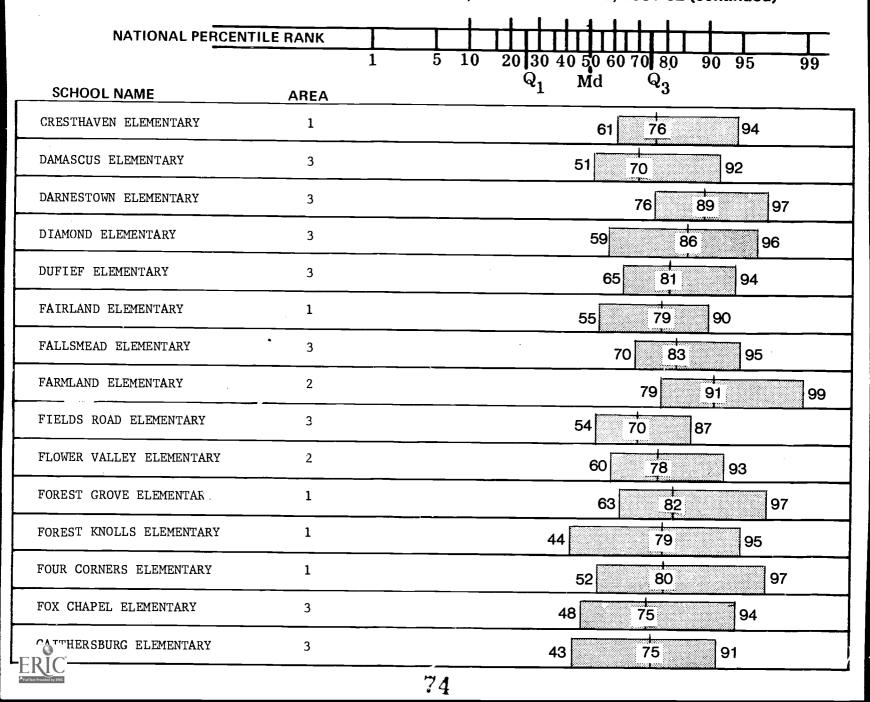


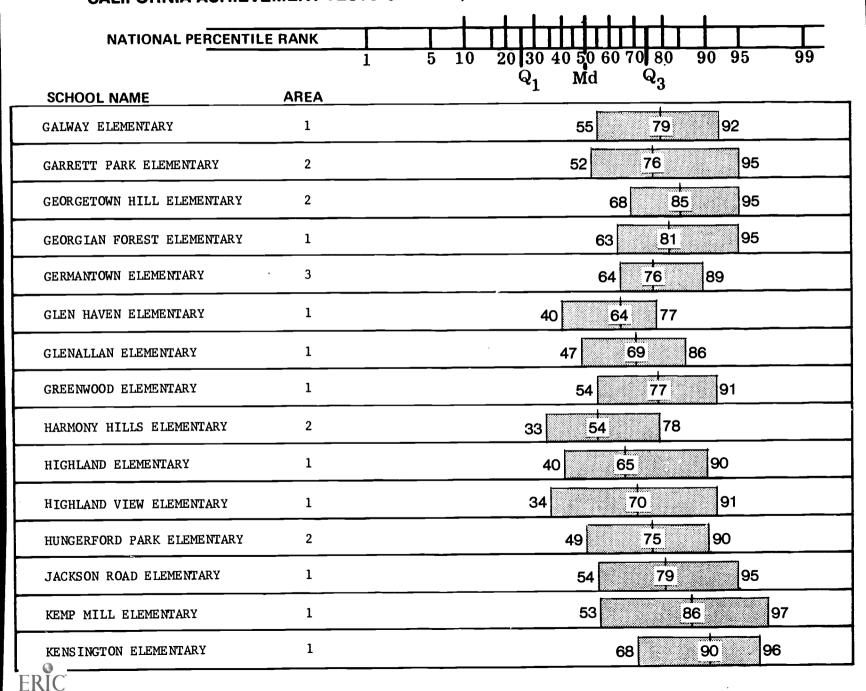


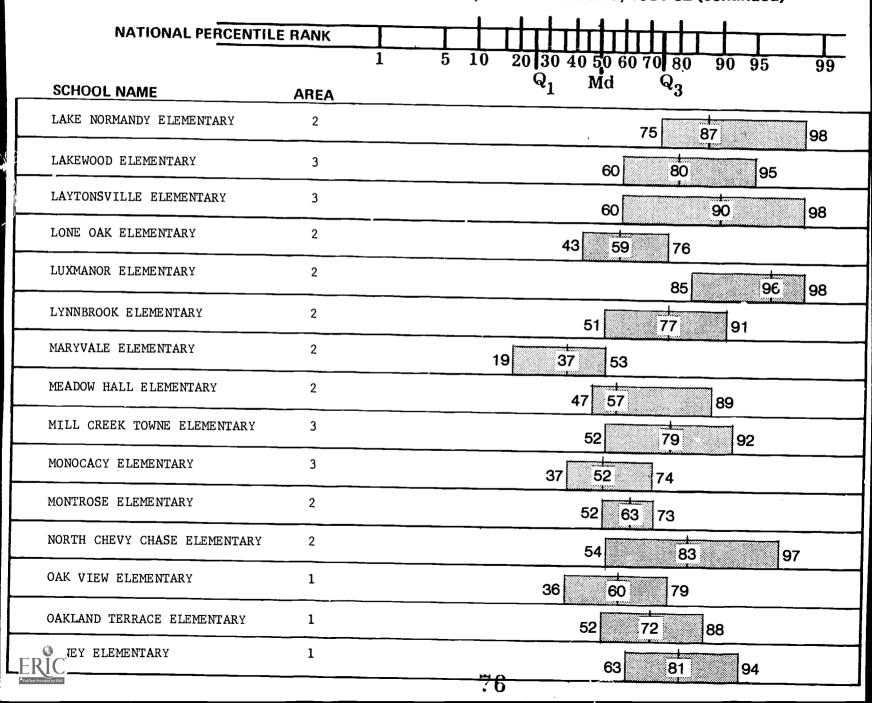










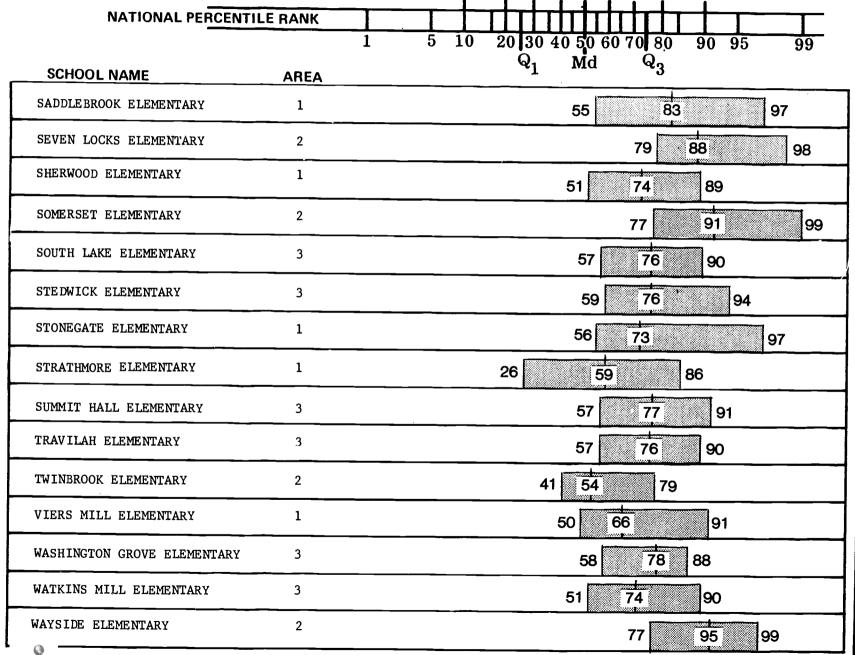


NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) -CALIFORNIA ACHIEVEMENT TESTS GRADE 5, TOTAL BATTERY, 1981-82 (continued) NATIONAL PERCENTILE RANK 20 30 40 50 60 70 80 $1\bar{0}$ \dot{Q}_3 Md SCHOOL NAME **AREA** WILLIAM TYLER PAGE ELEMENTARY PARKWOOD ELEMENTARY PINE CREST ELEMENTARY PINEY BRANCH ELEMENTARY PLEASANT VIEW ELEMENTARY POOLESVILLE ELEMENTARY POTOMAC ELEMENTARY RADNOR ELEMENTARY RITCHIE PARK ELEMENTARY ROCK CREEK FOREST ELEMENTARY ROCK CREEK PALISADES ELEMENTARY ROCK CREEK VALLEY ELEMENTARY ROCKING HORSE ROAD ELEMENTARY

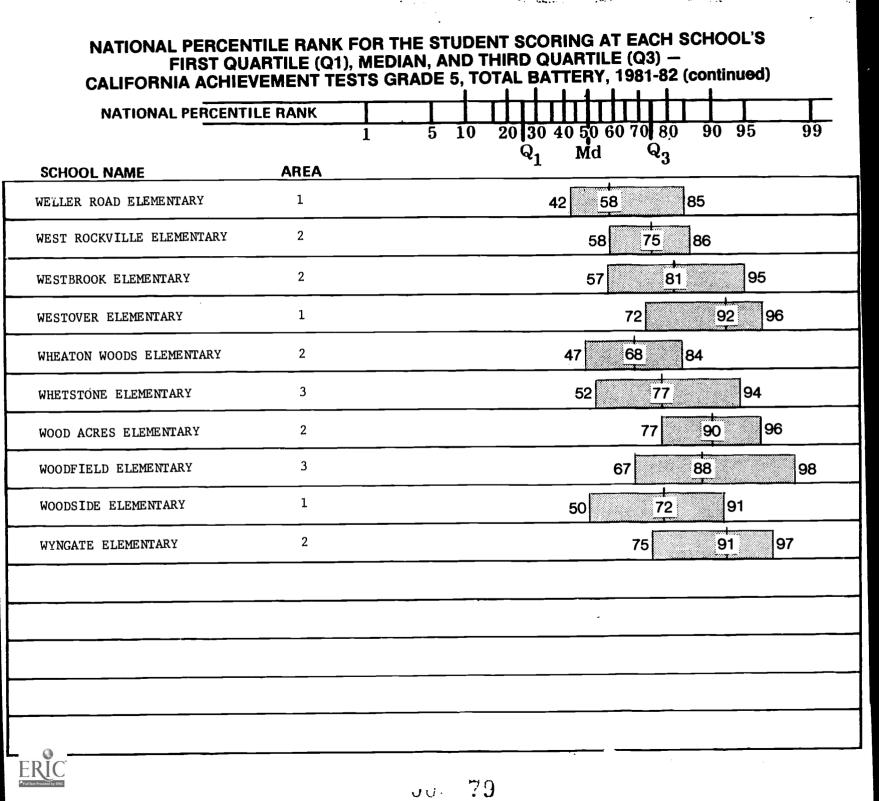


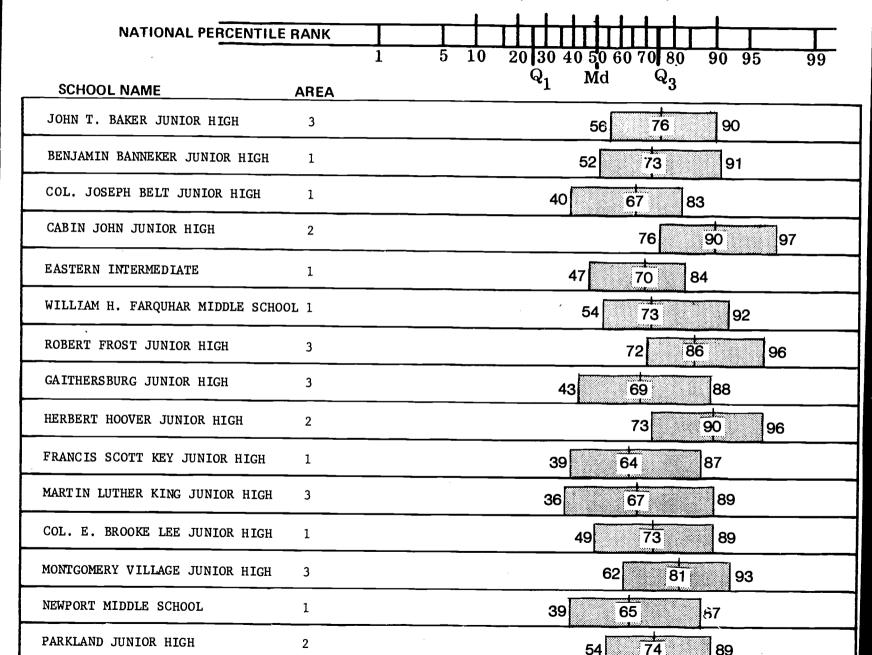
ROLLINGWOOD ELEMENTARY

ROSEMONT ELEMENTARY

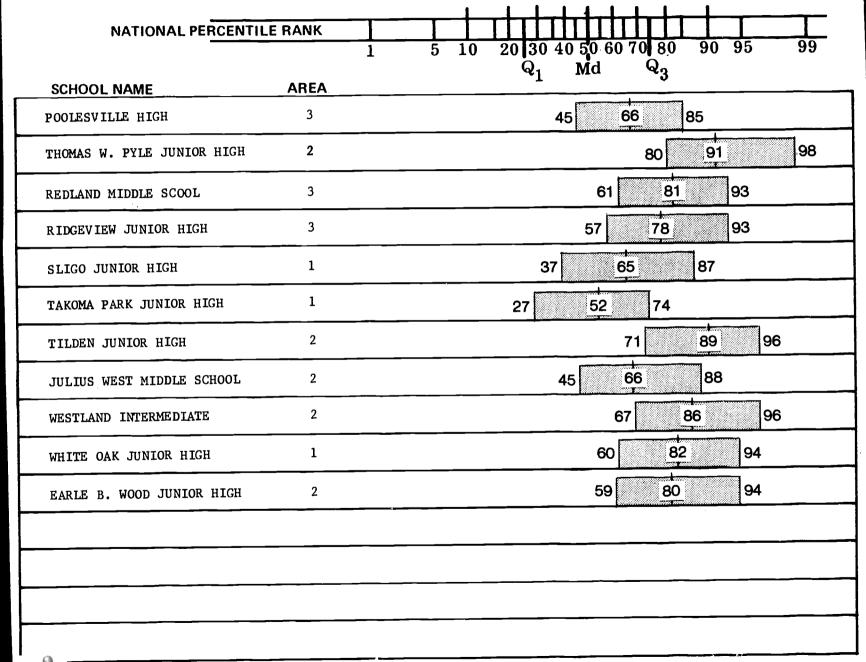




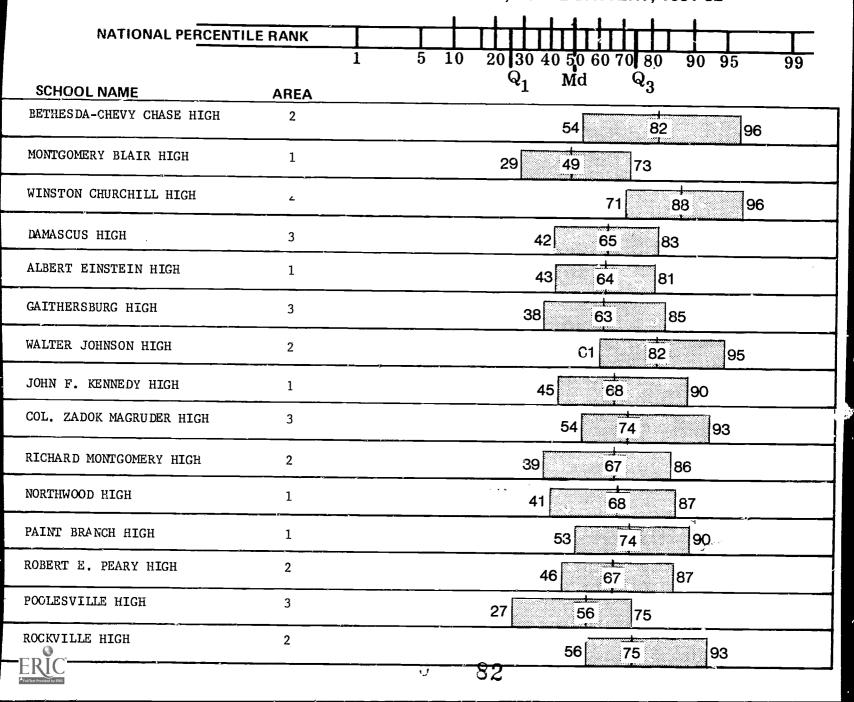


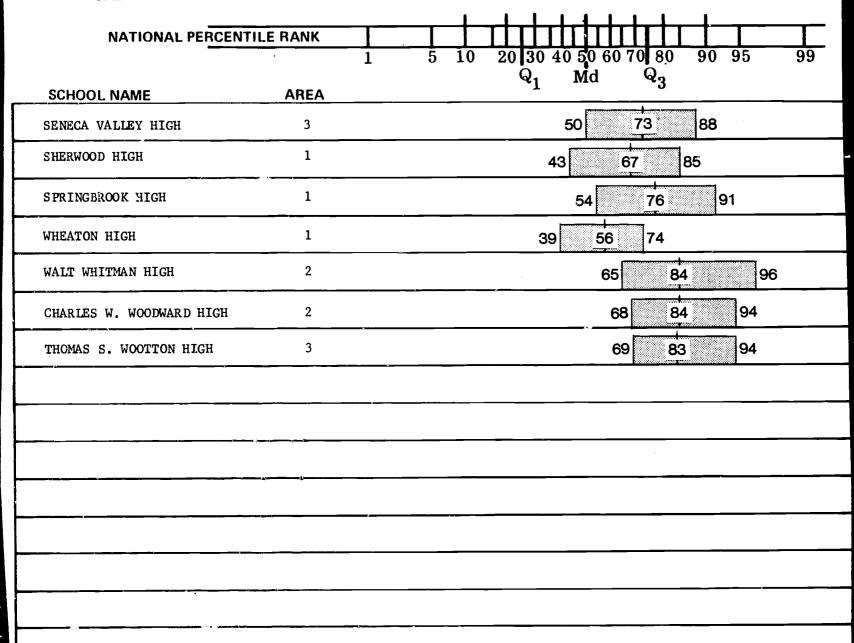




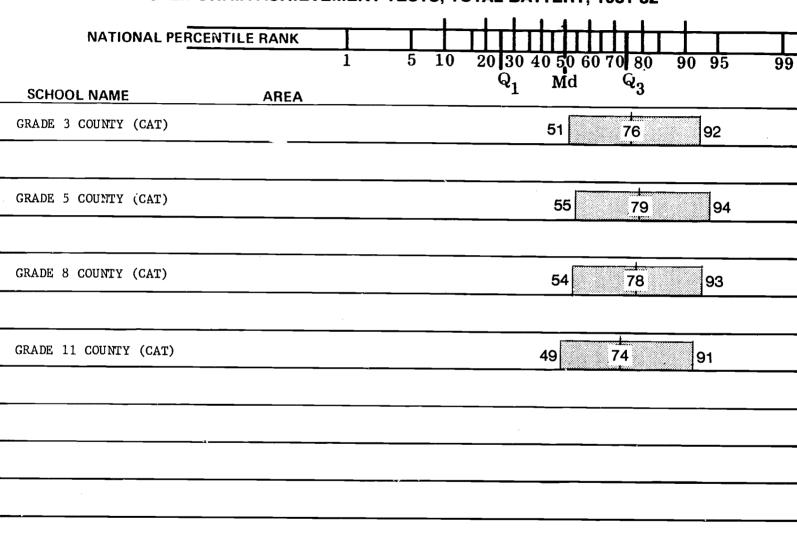














Longitudinal Trends

The school longitudinal analysis presents the score trends of students tested in the same school twice. This testing was done in Grades 3 and 5. This analysis provides a better indication of possible program strengths and weaknesses than does comparing scores for groups of different students. When scores for different students are compared, differences in their ability can confound any judgements about quality. That is, brighter students may score higher because of their own talents, not because their educational program is any better. Using the results for the same group of students at two grade levels eliminates this confounding factor.

While longitudinal data have the advantage cited above, they should not be used to label schools as having good or poor programs but only as a "flag" suggesting that a closer look needs to be taken. Judgement of the quality of a school program needs to be based on many things in addition to standardized test scores, no matter how well they are analyzed. Additionally, the statistic being used, difference scores, is somewhat unstable. For these and other reasons the longitudinal results for a given school are often not consistent from year to year. That is, the method will generally not flag a school two years in a row. Thus, before a school is cited as having a good or poor program based on longitudinal data, the results of several years need to be reviewed.

The identification of a school as having good or poor score trends in a given year can be affected by some of the interpretive problems discussed in an earlier section of this report. If the school longitudinal group has a score decline or increase, it could be the result of test characteristics, not the quality of the school program. One reason for score changes could be that the norm group for the CAT had higher ability than did the norm group for the ITBS. Thus, when students were assigned standardized scores (e.g., percentile ranks) on the CAT, they were being compared to brighter students and did not appear to perform as well. Another reason for score changes could be that the content of the CAT was a better match to the MCPS curriculum. In this case students would have been taught more of the ITBS content but not necessarily any more of the MCPS curriculum. Thus, their scores would have improved without their actually learning any more.

In an attempt to correct for the effect of test characteristics, a baseline for comparison has been established. This baseline is the average trend, countywide, for the students tested twice in the same school. This is being used on the assumption that, if these characteristics influence score trends, the county trend will indicate the amount of correction that is needed.



^{7.} The groups might be the current third grade and last year's third grade or the current third and fifth grades.

Substantial deviation (8 or more NCE points) from this baseline by a school trend is an indication of potential strength or weakness. School trends that are 8 or more NCE points above the county trend will be indicated by a plus (+). School trends that are 8 or more NCE points below the county trend will be indicated by a minus (-). When reviewing data for small groups (fewer than 30) one should use extra caution before reaching conclusions about program strengths and weaknesses. Mean scores for groups of fewer than 30 are somewhat unstable and can be unduly influenced by a few very high or very low scores. No results are reported for groups of fewer than 10 because of the extreme instability of mean scores for groups that size. County trends for students tested in the same school are summarized in Table 5. Also shown in that table are the differences required to indicate substantial change.

This section of the report contains three tables of school data. Table 6 presents the elementary school longitudinal results from Grade 3 to 5 for the 1981-82 school year. Given the grades in which we test, that is, 3, 5, 8, and 11, school longitudinal results can only be computed for elementary schools.

Table 7 presents a summary of four years of school longitudinal analyses. This makes it possible to see which schools are consistently identified as having good or poor programs. The table shows the subject areas and years in which each elementary school had a substantial deviation from the county longitudinal trend. The schools have been grouped into quarters based on the Grade 3 scores for the 1981-82 report group. This grouping is helpful in evaluating results because there is a tendency for very high (low) scoring schools to have their scores go down (up) the next time they are tested. Presenting the results for the similarly scoring schools together helps to determine if a school's trend is "what might be expected" (i.e., similar to schools that start at the same level) or if it is unusual for schools at that level and therefore merits special attention.

Table 8 contains what will be called quasilongitudinal data. It shows the trends for students who move as a group from one school to another between the Grade 3 testing and the Grade 5 testing. This occurs because at least one of the schools does not have both grades.



^{8.} The statistical name for this phenomenon is regression effect. A review of the four years of school longitudinal results shows a slight regression effect. Schools that start off (Grade 3) in the top quarter tend to have an average trend that is a point or two lower than the county trend. Likewise schools that start in the bottom quarter tend to have an average trend a point or two higher than the county trend.

TABLE 5

COUNTYWIDE MEANS AND MAGNITUDE OF TREND NEEDED TO INDICATE SUBSTANTIAL* CHANGE FOR LONGITUDINAL AND NONLONGITUDINAL SCHOOL RESULTS

| | | Lo | ngitudinal | | | Non1 | ongitudinal | |
|-------------------------|-----------------------------|----------------------------|------------|-------------------------|-----------------------------|--------------|-------------|-------------------------|
| | Spring 1980 | Fa11 1981 | | | Spring 1980 | Fall 1981 | | |
| | Grade 3 ITBS NCE Mean | Grade 5 CAT NCE Mean | | Substantial Decrease | Grade 3 ITBS NCE Mean | CAT | | Substantial Decrease |
| | | | | | | | | |
| Reading Comprehension | 62 | 65 | 11 | 5 | 56 | 60 | 12 | 4 |
| Language | 71 | 70 | 7 | 9 | 64 | 63 | 7 | 9 |
| Mathematics | 66 | 6 8 | 10 | 6 | 58 | 62 | 12 | 4 |
| Composite/Total Battery | 68 | 69 | 7 | 9 | 61 | 62 | 9 | 7 |
| | | | | | | | | |

^{*}Substantial is defined as 8 or more NCE points above or below the county trend.



TABLE 6 SCHOOL LONGITUDINAL RESULTS FOR STUDENTS TESTED IN THE SAME SCHOOL IN GRADE 3 (ITBS, SPRING 1980) AND GRADE 5 (CAT, FALL 1981)

| | | | | | Reading | | | | | | |
|---------------------------------------|---------------|--------|--------|------|------------|-------------|------------|-----------|-------------|------------------|------------|
| | | | | Comp | orehension | La | anguage | <u> </u> | <u>Math</u> | Tota | 1 Battery |
| | Schoo1 | | N. 1 | 1707 | Percentile | | Percentile | | Percentile | | Percentile |
| School | | 01 | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| 301001 | <u>Number</u> | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| Ashburton | 425 | 3 | 26 | 67 | 79 | 75 | 88 | 71 | 84 | 73 | 86 |
| | | 5 | 26 | 68 | 80 | 70 | 83 | 67 | 79 | 70 | 83 |
| Ayrlawn | 421 | 3 | 13 | 59 | 67 | 69 | 82 | 72 | 85 | 69 | 82 |
| | | 5 | 13 | 68 | 80 | 76+ | 89 | 69 | 82 | 71 | 84 |
| Bannockburn | 420 | 3 5 | 29 | 67 | 79 | 78 | 91 | 73 | 86 | 73 | 86 |
| · · · · · · · · · · · · · · · · · · · | | 5 | 29 | 70 | 83 | 71 | 84 | 65- | 76 | 71 | 84 |
| ucy Barnsley | 505 | 3 | 54 | 61 | 70 | 73 | 96 | (5 | 7.6 | | |
| | | 5 | 54 | 67 | 79 | 77 | 86 90 | 65 75+ | 76 88 | 68 75 | 80 88 |
| Bells Mill | 607 | 3 | 36 | 71 | 84 | 80 | 92 | 71 | 84 | 76 | 89 |
| <u> </u> | | 3 5 | 36 | 70 | 83 | 81 | 93 | 73 | 86 | 77 | 90 |
| Belmont | 513 | 3 | 58 | 62 | 72 | 72 | 85 | 71 | 84 | 70 | 83 |
| | | 5 | 58 | 67 | 79- | 79+ | 92 | 71 | 84 | 73 | 86 |
| Bel Pre | 780 | 3 | 27 | 46 | 42 | | 58 | 53 | 56 | 51 | 52 |
| | | 5 | 27 | 57+ | 63 | 69 + | 82 | 68+ | 80 | 65+ | 76 |
| Bethesda | 401 | 3 | 40 | 73 | 86 | 81 | 93 | 74 | 87 | 79 | 92 |
| | | 5 | 40 | 73 | 86 | 78 | 91 | 75 | 88 | 7 9 78 | 92 91 |



TABLE 6 (CONTINUED)

| | | | <u> </u> | | Reading | | | | | _ | _ |
|-----------------|--------------|-------|----------|------|-------------|------|-------------|-------------|-----------------|-------------|-----------------|
| | | _ | | Com | prehension_ | La | inguage | | Math | Tota | al Battery |
| | | | | | Percentile | *** | Percentile | NOT | Percentile | NOT | Percentil |
| | School | | Number | NCE | Rank | NCE | Rank | NCE Mean | Rank of Mean | NCE Mean | Rank of Mean |
| School_ | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | or mean | mean | or Mean |
| Beverly Farms | 226 | 3 | 45 | 65 | 76 | 80 | 92 | 74 | 87 | 74 | 87 |
| | | 5 | 45 | 68 | 80 | 72 | 85 | 71 | 84 | 72 | 85 |
| Bradley | 410 | 3 | 26 | 77 | 90 | 77 | 90 | 77 | 90 | 80 | 92 |
| | | 5 | 26 | 74 | 87 | 79 | 92 | 74 | 87 | 79 | 92 |
| Broad Acres | 304 | 3 | 11 | 38 | 28 | 53 | 56 | 39 | 30 | 46 | 42 |
| production of | | 5 | 11 | 49+ | 48 | 55 | 59 | 41 | 33 | 50 | 50 |
| Brookhaven | 807 | 3 | 53 | 57 | 63 | 69 | 82 | 65 | 76 | 64 | 75 |
| prooffina ven | | 5 | 53 | 62 | 72 | 72 | 85 | 65 | 76 | 68 | 80 |
| Brookmont | 414 | 3 | 18 | 67 | | 75 | . 88 | 67 | 79 | 72 | 85 |
| DI OOILIIONE | ,_, | 5 | 18 | 73 | 86 | 80 | 92 . | 76 | 89 | 79 | 92 |
| Brown Station | 559 | 3 | 49 | 61 | 70 | 66 | 78 | 61 | 70 | 64 | 75 |
| Dioxii Gdddioii | | 5 | 49 | 67 | 79 | 69 | 82 | 70 | 83 | 70 | 83 |
| Burning Tree | 419 | 3 | 50 | 72 | 85 | 79 | 92 | 81 | 93 | 80 | 92 |
| | · = - | 5 | 50 | 74 | 87 | 83 | 94 | 79 | 92 | 83 | 94 |
| Burtonsville | 302 | 3 | 33 | 60 | 68 | 71 | 84 | 65 | 76 | 67 | 79 |
| DUL COHO FALLO | | 5 | 33 | 60 | 68 | 70 | 83 | 62 | 72 | 64 | 75 |

TABLE 6 (CONTINUED)

| | | | | | Reading | | | | | | |
|-------------------|--------|-------|--------|------|------------|------|------------|------|------------|------|------------|
| | | | | Comp | rehension | L | anguage | | Math | Tota | al Battery |
| | School | | Number | NCE | Percentile | 1707 | Percentile | | Percentile | | Percentil |
| School | Number | Grade | | 1 | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| 3011001 | Машрет | Grade | Tested | Mean | of Mean |
| Candlewood | 508 | 3 | 56 | 65 | 76 | 70 | 83 | 68 | 80 | 70 | 83 |
| | | 5 | 56 | 69 | 82 | 72 | 85 | 74 | 87 | 75 | 88 |
| Cannon Road | 310 | 3 | 46 | 60 | 68 | 71 | 84 | 64 | 75 | 67 | 79 |
| | | 5 | 46 | 66 | 78 | 75 | 88 | 68 | 80 | 71 | 84 |
| Carderock Springs | 604 | 3 | 25 | 70 | 83 | 80 | 92 | 74 | 87 | 76 | |
| | | 5 | 25 | 70 | 83 | 74 | 87 | 74 | 87 | 75 | 88 |
| Cashell | 511 | 3 | 65 | 56 | 61 | 61 | 70 | 57 | 63 | 61 | 70 |
| | | 5 | 65 | 63 | 73 | 64 | 75 | 68+ | 80 | 67 | 79 |
| Cedar Grove | 703 | 3 | 29 | 67 | | 69 | 82 | 67 | 79 | 71 | 84 |
| | | 5 | 29 | 69 | 82 | 75 | 88 | 73 | 86 | 74 | 87 |
| Chevy Chase | 403 | 3 | 46 | 64 | 75 | 71 | 84 | 65 | 76 | 69 | 82 |
| | | 5 | 46 | 68 | 80 | 76 | 89 | 70 | 83 | 74 | 87 |
| Clarksburg | 101 | 3 | 31 | 58 | 65 | 62 | 72 | 57 | 63 | 60 | 68 |
| | _ | 5 | 31 | 55 | 59 | 64 | 75 | 55 | 59 | 58 | 65 |
| Cloverly | 308 | 3 | 52 | 58 | 65 | 67 | 79 | 62 | 72 | 64 | 75 |
| | | 5 | 52 | 61 | 70 | 70 | 83 | 64 | 75 | 66 | 78 |

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TABLE 6 (CONTINUED)

SCHOOL LONGITUDINAL RESULTS FOR STUDENTS TESTED IN THE SAME SCHOOL IN GRADE 3

(ITBS, SPRING 1980) AND GRADE 5 (CAT, FALL 1981)

| | | | | | Reading orehension | La | anguage | | Math | Tota | al Battery Percentile |
|------------------|------------------|--------|------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|--------------------------|
| School | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Rank of Mean |
| Cold Spring | 238 | 3 5 | 58 58 | 64 69 | 75 82 | 71 78+ | 84 91 | 66 74 | 78 87 | 69 76 | 82 89 |
| College Gardens | 229 | 3 5 | 67 67 | 68 70 | 80 83 | 73 71 | 86 84 | 70 70 | 83 83 | 73 71 | 86 84 |
| Congressional | 218 | 3 5 | 17 17 | 50 57 | 50 63 | 67 61 | 79 70 | 65 63 | 76 73 | 61 61 | 70 70 |
| Connecticut Park | 779 | 3 5 | 28 28 | 59 64 | 67 75 | 66 64 | 78 75 | 64 65 | 75 76 | 65 67 | 76 79 |
| Cresthaven | 808 | 3 5 | 27 27 | 62 64 | 72 75 | 71 70 | 84 83 | 64 65 | 75 76 | 67 67 | 79 79 |
| Damascus | 702 | 3 5 | 65 65 | 63 61 | 73 70 | 70 68 | 83 80 | 66 65 | 78 76 | 66 66 | 78 78 |
| Darnestown " | 351 | 3 5 | 44 44 | 66 69 | 78 82 | 76 76 | 89 89 | 74 79 | 87 92 | 73 77 | 86 90 |
| Diamond | 570 | 3 5 | 80 80 | 65 65 | 76 76 | 71 70 | 84 83 | 70 73 | 83 86 | 70 72 | . 83 . 85 |

TABLE 6 (CONTINUED)

SCHOOL LONGITUDINAL RESULTS FOR STUDENTS TESTED IN THE SAME SCHOOL IN GRADE 3

(ITBS, SPRING 1980) AND GRADE 5 (CAT, FALL 1981)

| | | | | | Reading prehension | L | anguage | | Math | Tota | al Battery |
|---------------|------------------|--------|------------------|------------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|
| School_ | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean |
| Dufief | 241 | 3 5 | 58 58 | 62 64 | 72 75 | 70 71 | 83 84 | 69 73 | 82 86 | 69 71 | 82 84 |
| Fairland | 303 | 3 5 | 57 57 | 66 67 | 78 79 | 72 72 | 85 85 | 67 67 | 79 79 | 70 70 | 83 83 |
| Fallsmead | 233 | 3 5 | 52 52 | 71 71 | 84 84 | 77 78 | 90 91 | 70 74 | 83 87 | 75 76 | 88 89 |
| Farmland | 219 | 3 5 | 38 38 | 70 7 3 | 83 86 | 86 81 | 96 93 | 80 81 | 92 93 | 84 81 | 95 93 |
| Fields Road | 566 | 3 5 | 36 36 | 60 67 | 68 79 | 69 68 | 82 80 | 61 61 | 70 70 | რ5 66 | 76 78 |
| Flower Valley | 506 | 3 5 | 35 35 | 63 64 | 73 75 | 70 69 | 83 82 | 64 61 | 75 70 | 68 66 | 80 78 |
| Forest Grove | 768 | 3 5 | 17 17 | 67 64 | 79 75 | 76 74 | 89 87 | 78 73 | 91 86 | 74 73 | 87 86 |
| Forest Knolls | 803 | 3 5 | 34 34 | 60 63 | 68 73 | 68 72 | 80 85 | 62 70 | 72 83 | 66 71 | 78 84 |

TABLE 6 (CONTINUED)

SCHOOL LONGITUDINAL RESULTS FOR STUDENTS TESTED IN THE SAME SCHOOL IN GRADE 3

(ITBS, SPRING 1980) AND GRADE 5 (CAT, FALL 1981)

| | | | _ | | leading orehension | ٦. ع | inguage | | Math | Tota | l Battery |
|-----------------|------------------|--------|------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|
| School | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean |
| Four Corners | 763 | 3 5 | 37 37 | 61 65 | 70 76 | 60 66 | 68 78 | 60 | 68 82 | 63 67 | 73 79 |
| Fox Chapel | 106 | 3 5 | 49 49 | 66 64 | 78 75 | 77 70 | 90 83 | 76 70 | 89 83 | 72 69 | 85 82 |
| Gaithersburg | 553 | 3 5 | 50 50 | 59 60 | 67 68 | 62 65 | 72 76 | 59 62 | 67 72 | 59 62 | 67 72 |
| Galway | 313 | 3 5 | 35 35 | 61 66 | 70 78 | 73 69 | 86 82 | 67 65 | 79 76 | 67 69 | 7 9 82 |
| Garrett Park | 204 | 3 5 | 17 17 | 58 67 | 65 79 | 71 69 | 84 82 | 65 68 | 76 80 | 66 69 | 78 82 |
| Georgetown Hill | 221 | 3 5 | 52 52 | 70 66 | 83 78 | 77 74 | 90 87 | 74 73 | 87 86 | 76 74 | 8 9 87 |
| Georgian Forest | 786 | 3 5 | 28 28 | 65 71 | 76 84 | 72 75 | 85 88 | 73 76 | 86 89 | 71 77 | 84 90 |
| Cermantown | 102 | 3 5 | 51 51 | 63 65 | 73 76 | 74 65- | 87 76 | 68 73 | 80 86 | 69 69 | 82 82 |



TABLE 6 (CONTINUED)

SCHOOL LONGITUDINAL RESULTS FOR STUDENTS TESTED IN THE SAME SCHOOL IN GRADE 3

(ITBS, SPRING 1980) AND GRADE 5 (CAT, FALL 1981)

| | | | | | leading orehension | T.e | anguage | | Math | m _ 4 | -1 D-45 |
|-----------------|------------------|---------------|------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------|-------------|---|
| School | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | al Battery Percentile Rank of Mean |
| Glen Haven | 767 | 3 5 | 48 48 | 57 59 | 63 67 | 65 59 | 76 67 | 61 59 | 70 67 | 63 59 | 73 67 |
| Glenallan | 817 | 3 5 | 35 35 | 56 60 | 61 68 | 66 68 | 78 80 | .63 61 | 73 70 | 63 64 | 73 75 |
| Greenwood | 512 | 3 5 | 84 84 | 62 62 | 72 72 | 72 68 | 85 80 | 60 63 | 68 73 | 67 66 | 79 78 |
| Harmony Hills | 7 97 | 3 5 | 46 46 | 55 57 | 59 63 | 64 58 | 75 65 | 57 58 | 63 65 | 58 57 | 65 63 |
| Highland | 774 | 3 5 | 65 65 | 57 58 | 63 65 | 63 61 | 73 70 | 61 64 | 70 75 | 61 63 | 70 73 |
| Highland View | 784 | 3 5 | 19 19 | 64 63 | 75 73 | 73 68 | 86 80 | 70 67 | 83 79 | 71 67 | 84 79 |
| Hungerford Park | 214 | 3 5 | 43 43 | 62 65 | 72 76 | 73 65 | 86 76 | 63 66 | 73 78 | 69 67 | 82 79 |
| Jackson Road | 305 | 3 5 | 59 59 | 66 68 | 78 80 | 74 73 | 87 86 | 68 70 | 80 83 | 70 73 | 83 86 |



TABLE 6 (CONTINUED)

| | | | | | leading orehension | La | inguage | | Math | Tota | 1 Battery |
|---------------|------------------|--------|------------------|-------------|-------------------------------|-------------|-------------------------------|-------------------|-------------------------------|-------------|-------------------------------|
| School School | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean |
| Kemp Mill | 805 | 3 5 | 25 25 | 73 67- | 86 79 | 90 76- | 97 89 | 88 72 - | 96 85 | 89 74- | 97 87 |
| Kensington | 751 | 3 5 | 22 22 | 66 69 | 78 92 | 74 78 | 87 91 | 69 80+ | 82 92 | 69 77 | 82 90 |
| Lake Normandy | 231 | 3 5 | 61 61 | 70 73 | 83 86 | 75 76 | 88 89 | 71. 74 | 84 87 | 75 77 | 88 90 |
| Lakewood | 209 | 3 5 | 38 38 | 61 67 | 70 79 | 68 73 | 80 86 | 65 65 | 76 76 | 67 69 | 7 9 82 |
| Laytonsville | 051 | 3 5 | 72 72 | 66 64 | 78 75 | 74 74 | 87 87 | 69 75 | 82 88 | 71 74 | 84 87 |
| Lone Oak | 205 | 3 5 | 39 39 | 55 55 | 59 59 | 64 57 | 75 63 | 56 56 | 61 61 | 60 57 | 68 63 |
| Luxmanor | 220 | 3 5 | 23 23 | 70 72 | 83 ·. 85 | 82 83 | 94 94 | 83 82 | 94 94 | 7 9 82 | 92 94 |
| Lynnbrook | 409 | 3 5 | 18 18 | 61 63 | 70 73 | 5 9 63 | 67 73 | 55 55 | . 59 59 | 61 60 | 70 68 |

TABLE 6 (CONTINUED)

| | | | | | Reading prehension | La | inguage | | Math | Tota | al Battery |
|-------------------|------------------|----------|------------------|-------------|-------------------------------|-------------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|
| School | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean |
| Maryvale | 210 | 3 5 | 46 46 | 47 47 | 44 44 | 45 49 | 41 48 | 42 46 | 35 42 | 43 46 | 37 42 |
| Meadow Hall | 212 | 3 5 | 27 27 | 65 62 | 76 72 | 77 71 | 90 84 | 73 64- | 86 75 | 73 68 | 86 80 |
| Mill Creek Towne | 556 | 3 5 | 60 60 | 59 60 | 67 68 | 70 64 | 8 3 75 | 65 70 | 76 83 | 66 67 | 78 79 |
| Monocacy | 652 | 3 5 | 25 25 | 53 52 | 56 54 | 59 53 | 67 56 | 52 53 | 54 56 | 56 53 | 61 56 |
| Montrose | 225 | . 3 5 | 17 17 | 49 57 | 48 63 | 70 61 - | 83 70 | 60 57 | 68 63 | 62 57 | 72 63 |
| North Chevy Chase | 415 | 3 5 | 23 23 | 63 69 | 73 82 | 69 70 | 82 83 | 81 67- | 93 79 | 72 71 | 85 84 |
| Oak View | 766 | 3 5 | 31 31 | 49 53 | 48 56 | 53 55 | 56 59 | 50 47 | 50 44 | 52 51 | 54 52 |
| Oakland Terrace | 769 | 3 5 | 49 49 | 62 64 | 72 75 | 68 62 | 80 72 | 64 63 | 75 73 | 68 64 | 80 75 |



TABLE 6 (CONTINUED)

SCHOOL LONGITUDINAL RESULTS FOR STUDENTS TESTED IN THE SAME SCHOOL IN GPADE 3

(ITBS, SPRING 1980) AND GRADE 5 (CAT, FALL 1981)

| | elinet 8 (4-4-49) — base annual del l'Armando-degre - apprond v | The state of the s | | | Reading orehension | La | inguage | | Math | Tota | al Battery |
|--------------------|---|--|------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|
| School | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean |
| Olney | 502 | 3 5 | 50 50 | 65 68 | 76 80 | 71 82+ | 94 94 | 67 69 | 79 82 | 70 73 | 83 86 |
| William Tyler Page | 312 | 3 5 | 21 21 | 72 65- | 85 76 | 78 72 | 91 85 | 71 69 | 84 82 | 74 71 | 87 84 |
| Parkwood | 783 | 3 5 | 20 20 | 63 71 | 73 84 | 71 75 | 84 88 | 61 63 | 70 73 | 67 70 | 79 83 |
| Pine Crest | 761 | 3 5 | 41 41 | 60 63 | 68 73 | 69 65 | 82 76 | 59 58 | 67 65 | 64 62 | 75 72 |
| Pleasant View | 765 | 3 5 | 21 21 | 57 68+ | 63 80 | 68 70 | 80 83 | 62 64 | 72 75 | 64 68 | 75 80 |
| Poolesville | 153 | 3 5 | 70 70 | 58 60 | 65 68 | 63 65 | 73 76 | 58 62 | 65 72 | 62 63 | 72 73 |
| Potomac | 601 | 3 5 | 65 65 | 67 69 | 79 82 | 79 75 | 92 88 | 74 74 | 87 87 | 76 75 | 89 88 |
| Radnor | 416 | 3 5 | 10 10 | 75 78 | 88 91 | 80 76 | 92 89 | 74 69 | 87 82 | 81 77 | 93 90 |



TABLE 6 (CONTINUED)

| | | | | | Reading | | | | | | |
|----------------------|--------|-------|--------|------|------------|------|------------|----------|------------|----------|------------|
| | | | | Com | prehension | La | anguage | <u> </u> | Math | Tota | al Battery |
| | School | | N1 | | Percentile | | Percentile | | Percentile | | Percentile |
| School | Number | 0 1- | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| 3011001 | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| Ritchie Park | 227 | 3 | 54 | 69 | 82 | 81 | 93 | 72 | 85 | | |
| | | 5 | 54 | 73 | 86 | 79 | 92 | 72 | 85 85 | 77 77 | 90 90 |
| Rock Creek Forest | 773 | 3 | 35 | 63 | 73 | 72 | 85 | 65 | 7/ | | |
| | | 5 | 35 | 68 | 80 | 72 | 85 | 65 67 | 76 79 | 68 70 | 80 83 |
| Rock Creek Palisades | 795 | 3 | 36 | 63 | 73 | 74 | 87 | 67 | 79 | 60 | |
| | | 5 | 36 | 66 | 78 | 69 | 82 | 68. | 80 | 69 69 | 82 82 |
| Rock Creek Valley | 819 | 3 | 43 | 63 | 73 | 75 | 88 | 70 | 83 | 70 | |
| | | 5 | 43 | 69 | 82 | 82+ | 94 | 79 | 92 | 70 78 | 83 91 |
| Rocking Horse Road | 785 | 3 | 29 | 49 | 48 | 63 | 73 | 53 | 56 | 57 | |
| | | 5 | 29 | 54 | 58 | 59 | 67 | 56 | 61 | 57 57 | 63 63 |
| Rollingwood | 411 | 3 | 26 | 66 | 78 | 73 | 86 | 62 | 72 | 70 | 83 |
| | _ | 5 | 26 | 67 | 79 | 73 | 86 | 68 | 80 | 71 | 84 |
| Rosemont | 555 | 3 | 25 | 54 | 58 | 61 | 70 | 58 | 65 | 59 | |
| | | 5 | 25 | 62 | 72 | 64 | 75 | 56 | 61 | 60 | 67 68 |
| Saddlebrook | 821 | 3 | 30 | 63 | 73 | 69 | 82 | 67 | 79 | 70 | |
| | | 5 | 30 | 67 | 79 | 76+ | 89 | 71 | 84 | 74 | 83 87 |

TABLE 6 (CONTINUED)

| | | | | • | | | | | | | |
|----------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------|-------------------|------------------------------------|
| Detter | Tota | W-Ab | | | | Reading | | | | | |
| Battery Percentil | TOLA | Math Percentile | | nguage Percentile | | orehension | Comp | | | | |
| Rank | NCE | Rank | NCE | Rank | NCE | Percentile Rank | war | | | | |
| of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean | NCE Mean | Number | 01. | School | |
| 02 1100 | - reari | OI Hear | Hear | or Hean | Hean | or Mean | Mean | Tested | Grade | Number | School |
| 89 | 76 | 86 | 73 | 90 | 77 | 83 | 70 | 35 | 3 | 603 | Seven Locks |
| 91 | 78 | 91 | 78 | 89 | 76 | 87 | 74 | 35 | 5 | 003 | seven rocks |
| | | | | | | | | | J | | |
| 72 | 62 | 61 | 56 | 79 | 67 | | | | _ | | |
| 7 <i>2</i> 76 | 65 | 73 | 63 | 79 79 | 67 67 | 58 73 | 54 | 59 | 3 | 501 | Sherwood |
| | | /3 | | 79 | 67 | 73 | 63 | 59 | 5 | | |
| 92 | 79 | 87 | 74 | 01 | 70 | | | | | | |
| 92 94 | 83 | 93 | 81 | 91 90 | 78 77 | 86 | 73 | 34 | 3 | 405 | Somerset |
| | | 93 | 01 | 90 | '' | 90 | 77 | . 34 | 5 | | |
| 86 | 73 | 82 | 69 | 01 | 70 | | | | | | |
| 80 | 68 | 73 | 63- | 91 83 | 78 76 | 80 | 68 | 43 | 3 | 564 | South Lake |
| | | 73 | 03- | 63 | // | 80 | 68 | 43 | 5 | | |
| 78 | 66 | 72 | 62 | 80 | 60 | 70 | | | | | |
| 83 | 70 | 80 | 68 | 84 | 68 71 | 70 78 | 61 | 66 | 3 | 568 | Stedwick |
| | | | | | /1 | 76 | 66 | 66 | 5 | | |
| 79 | 67 | 70 | 67 | 90 | | 70 | - (0 | | | | |
| 82 | | | | | | | | | 3 | 316 | Stonegate |
| | | | | | 67 | 76 | 65 | 30 | 5 | | |
| 61 | 56 | 56 | 52 | 70 | 61 | F./ | F.0 | 0.4 | | | |
| 67 | | | | | | | | | 3 | 822 | Strathmore |
| | | | | | | 00 | 80 | 34 | 5 | | |
| 76 | 65 | 72 | 62 | 02 | 70 | | | | | | |
| 78 | | | | | | | | | | 563 | Summit Hall |
| , 0 | " | 70 | 00 | 70 | 00 | 13 | 63 | 38 | 5 | | |
| _ | 67 69 56 59 65 66 | 79 79 56 61 72 78 | 67 67 53 56 62 66 | 80 79 70 67 83 78 | 68 67 61 59 70 66 | 72 76 56 68 59 73 | 62 65 53 60 55 63 | 30 30 34 34 34 38 | 3 5 3 5 | 316 822 563 | Stonegate Strathmore Summit Hall |

TABLE 6 (CONTINUED)

| | | | | | teading | | | | | | |
|------------------|-----------|-------------|--------|------|------------|------|------------|----------|------------|--------|-------------|
| _ | | | | Comp | rehension | La | anguage | <u> </u> | Math | Tota | al Battery |
| | 0 - 1 - 1 | | 1 | | Percentile | | Percentile | | Percentile | | Percentil |
| 0 -1 1 | School | | Number | NCE | Rank | NCE | Pank | NCE | Rank | NCE | Rank |
| School_ | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| Travilah | 216 | 3 | 40 | 65 | 76 | 71 | 84 | 64 | 75 | 68 | 80 |
| | | 5 | 40 | 67 | 79 | 69 | 82 | 65 | 76 | 68 | 80 |
| Twinbrook | 206 | 3 | 38 | 47 | 44 | 60 | 68 | 49 | 48 | 54 | 58 |
| | | 5 | 38 | 53 | 56 | 62 | 72 | 58 | 65 | 58 | 65 |
| Viers Mill | 772 | 3 | 39 | 58 | 65 | 68 | 80 | 63 | 73 | 63 | 73 |
| <u> </u> | | 5 | 39 | 60 | 68 | 71 | 84 | 66 | 78 | 66 | 78 78 |
| Washington Grove | 552 | 3 | 35 | 58 | 65 | 69 | 82 | 60 | 68 | 63 | 73 |
| | | 5 | 35 | 68 | 80 | 74 | 87 | 63 | 73 | 68 | 80 |
| Watkins Mill | 561 | 3 | 45 | 57 | 63 | 56 | 61 | 62 | 72 | 60 | 68 |
| | | 3 5 | 45 | 63 | 73 | 67+ | 79 | 64 | 75 | 65 | 76 |
| Wayside | 235 | 3 | 52 | 65 | 76 | 76 | 89 | 71 | 84 | 72 | 85 |
| | | 5 | 52 | 71 | 84 | 84+ | 95 | 79 | 92 | 81+ | 93 |
| Weller Road | 777 | 3 | 44 | 49 | 48 | 58 | 65 | 50 | 50 | 52 | 54 |
| | | 5 | 44 | 55 | 59 | 54 | 58 | 53 | 56 | 54 | 58 |
| West Rockville | 207 | 3 5 | 26 | 62 | 72 | 66 | 78 | 61 | 70 | 65 | 76 |
| | | 5 | 26 | 64 | 75 | 69 | 82 | 64 | 75 | 66 | 78 |

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TABLE 6 (CONTINUED)

SCHOOL LONGITUDINAL RESULTS FOR STUDENTS TESTED IN THE SAME SCHOOL IN GRADE 3

(ITBS, SPRING 1980) AND GRADE 5 (CAT, FALL 1981)

| | | | ······ | | Reading orehension | Т.: | anguage | | Math | Tota | al Battery |
|---------------|------------------|--------|------------------|-------------|-------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|
| School | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean |
| Westbrook | 408 | 3 | 31 31 | 70 69 | 83 82 | 72 73 | 85 86 | 66 65 | 78 76 | 73 70 | 86 83 |
| Westover | 504 | 3 5 | 37 37 | 65 70 | 76 83 | 80 75 | 92 88 | 71 74 | 84 87 | 74 75 | 87 88 |
| Wheaton Woods | 788 | 3 5 | 66 66 | 59 57 | 67 63 | 66 62 | 78 72 | 60 58 | 68 65 | 63 60 | 73 68 |
| Whetstone | 558 | 3 5 | 50 50 | 68 65 | 80 76 | 77 71 | 90 84 | 73 66- | 86 78 | 75 70 | 88 83 |
| Wood Acres | 417 | 3 5 | 42 42 | 75 71 | 88 84 | 80 77 | 92 90 | 70 76 | 83 89 | 79 77 | 92 90 |
| Woodfield | 704 | 3 5 | 65 65 | 66 71 | 78 84 | 78 79 | 91 92 | 73 78 | 86 91 | 75 78 | 88 91 |
| Wyngate | 422 | 3 5 | 59 59 | 72 75 | 85 88 | 78 79 | 91 92 | 74 73 | 87 86 | 78 78 | 91 91 |



TABLE 7 Schools With Substantial Longitudinal Trends in Each of the Last Four Years - First Quarter

| | <u> </u> | : | 1 978 | 3-79 |) | | 1 | L 97 9 | 9-80 |) | | 1 | 980 |) - 81 | | | | 981 | L – 82 | 2 7 |
|--------------------|----------|----------|-------|------|---|-----|----|--------|------|---|-----|----|-----|-------------------|----|-----|----|-----|---------------|-----|
| | No. | RC | TL | TM | C | No. | RC | TL | TM | С | No. | RC | TL | TM | ТВ | No. | RC | TL | TM | ТВ |
| Ashburton | 19 | | | | | 15 | | | | | 23 | | | | | 26 | | | | |
| Bannockburn | 29 | | L_ | | | 48 | | | | | 33 | | | | | 29 | | | | |
| Bells Mill | 37 | | | | | 53 | | | | | 40 | | , | | | 36_ | | | | |
| Bethesda | 22 | | | | | 35 | | | | | 39 | | | | | 40 | | | | |
| Beverly Farms | 56 | | | | | 50 | | | | | 46 | | | | | 45 | | | | |
| Bradley | 31 | | | | | 39 | | | | | 33 | | | | | 26 | | | | |
| Burning Tree | 22 | | | | | _55 | | | | | 53 | | | | | 50_ | | | | |
| Carderock Springs | 38 | | | | | 42 | L | | | | 20 | | | | | 25 | | | | |
| College Gardens | 44 | | | | | 45 | | | | | 58 | | | | | 67 | | | | |
| Darnestown | 27 | | | | | 55 | | | | | 48 | | | | | 44 | | | | |
| Fallsmead | 52 | | | | | 47 | | | | | 51 | | | | | 52 | | | | |
| Farmland | 54 | | _ | | | 50 | | | | | 39 | | | | | 38_ | | | | |
| Forest Grove | 22 | | | | | 21 | | | | | 24 | | | | | 17 | | | | |
| Georgetown Hill | 42 | | | | | 40 | | | | | 67 | | | | | 52 | | | | |
| Kemp Mill | 41 | | | | | 40 | | | | | 37 | | | | | 25 | | | | |
| Lake Normandy | 55 | | | | | 60 | | | | | 67 | | | | | 61 | | | | |
| Luxmanor | 44 | | | | | 36 | | | | | 30 | | | | | 23 | | | | |
| Meadow Hall | 25 | | | | | 30 | | | | | 48 | | | | | 27 | | | | |
| William Tyler Page | 42 | | | | | 42 | | | | | 35 | | | | | 21 | | | | |
| Potomac | 68 | | | | | 54 | | | | | 78 | | | | | 65 | | | | |
| Radnor | 12 | | | | | 13 | | | | | 17_ | | | | | 10 | | | | |
| Ritchie Park | 45 | | | | | 58 | | | | | 55 | | | | | 54 | | | | |
| Seven Locks | 35 | <u> </u> | | | | 29 | | | | | 31 | | | | | 35 | | | | |
| Somerset | 34 | | | | | 36 | | | | | 27 | | _ | | | 34 | | | | |
| South Lake | 22 | | | | | 35 | | | | | 46 | | | | | 43 | | | | |
| Westbrook | 32 | L | | • | | 42 | | | | | 35 | | | | | 31 | | | | |
| Westover | 37 | | | | | 58 | | | | | 58 | | | | | 37 | | | | |
| Whetstone | 46 | | | | | 70 | | | | | 65 | | | | | 50 | | | | |
| Wood Acres | 27 | | | | | 46 | | | | | 38 | | | | | 42 | | | | |
| Woodfield | 43 | | | | | 41 | | | | | 56 | | | | | 65 | | | | |
| Wyngate | 53 | | | | | 44 | | | | | 54 | | | | | 59_ | | | | |



7 - School longitudinal trend was at least 8 NCE points higher than the county trend.

f - School longitudinal trend was at least 8 NCE points lower than the county trend.

No. - Number Tested

TL - Total Language

C - Composite

RC - Reading Comprehension

TM - Total Math



TABLE 7 (Continued) Schools With Substantial Longitudinal Trends in Each of the Last Four Years - Second Quarter

| | | 1 | L 978 | 79 |) | | 1 | 97 9 | 9-80 | , | | 1 | . 980 | -81 | | | | 981 | | |
|----------------------|-----|----------|----------|----|---|-----|----------|----------|--------|----------|-----|----------|------------|----------|----------|-----|----------|----------|----------|----------|
| | No. | RC | TL | TM | C | No. | RC | TL | TM | С | No. | RC | TL | TM | TB | No. | RC | TL | TM | TB |
| Ayrlawn | | | | | | 16 | | | | | 17 | | | | | 13_ | | | \dashv | |
| Belmont | 52 | | | | | 73 | | | | | 61 | | | | | 58_ | | | | |
| Brookmont | 38 | | | | | 24_ | | | | | 40 | | L | | <u> </u> | 18 | | | _ | |
| Candlewood | 59 | | | | | 45 | | | | | 70 | | | | | 56 | | | | |
| Cedar Grove | 27 | <u> </u> | | | | 30_ | | | | | 33 | | | | | 29 | <u> </u> | | _ | |
| Chevy Chase | 54 | | | | | 56 | | | | | 50 | | ļ | ļ | | 46_ | <u> </u> | | | |
| Cold Spring | 62 | <u> </u> | ļ | | | 91 | | | | | 65 | | | | | 58_ | | | | |
| Diamond | 62 | | | | | 74 | | _ | | | 80 | | | | | 80 | <u> </u> | | _ | |
| Dufief | 31 | | | | | 65 | | | | | 66 | _ | <u> </u> | _ | | 58_ | <u> </u> | | | |
| Fairland | 53 | _ | | | | 52 | | 11 | | | 61 | | _ | | | 57 | <u> </u> | | 111111 | <u> </u> |
| Fox Chapel | 56 | | | | | 47 | | | | | 57 | | ļ <u>.</u> | | | 49 | <u> </u> | | | <u> </u> |
| Georgian Forest | 25 | | | | | 40 | | | | | 32 | | lime | 1 | | 28_ | <u> </u> | 131111 | | |
| Germantown | 33 | | | | | 47 | | | | | 71 | | | | | 51_ | ļ_ | | | <u> </u> |
| Highland View | 33 | | | | | 34 | | | | | 35 | | _ | | | 19 | ↓ | | | <u> </u> |
| Hur.gerford Park | 17 | | | | | 50_ | | | | | 49 | ļ | | | | 43 | | | | ļ |
| Jackson Road | 39 | | | | | 66 | <u> </u> | | | | _65 | <u> </u> | _ | | | 59 | ļ | | | <u> </u> |
| Kensington | 15 | | <u> </u> | | _ | 23_ | | | | | 18 | ļ | | | | 22 | <u> </u> | | | _ |
| Laytonsville | 60 | | | | | 65_ | | | | | 79 | L_ | | L_ | | 72 | ↓ | | 1888841 | _ |
| North Chevy Chase | 28 | | } | | | 35 | | · | | | 43 | <u> </u> | | _ | | 23 | | | | <u> </u> |
| 01ney | 44 | | | | | 56_ | | | | | 50 | L | <u> </u> | | | 50 | ļ | | | _ |
| Rock Creek Palisades | 30 | <u> </u> | <u></u> | | | 36 | | | ļ | | 34 | ļ | | | | 36 | <u> </u> | | | _ |
| Rock Creek Valley | 42 | _ | | | | 64 | | | 111222 | | 56 | <u> </u> | | | | 43 | <u> </u> | | | L_ |
| Rollingwood | 31 | | | | | 15 | | | | | 25 | _ | <u> </u> | <u> </u> | | 26_ | | | | <u> </u> |
| Saddlebrook | 45 | | | | | 48 | <u> </u> | <u> </u> | | <u> </u> | 31 | | <u> </u> | <u> </u> | _ | 30 | 1_ | | | |
| Wayside | 57 | | | | | 61 | | | | | 55 | | | <u> </u> | <u> </u> | 52 | <u> </u> | , | | |



- School longitudinal trend was at least 8 NCE points higher than the county trend.

- School longitudinal trend was at least 8 NCE points lower than the county trend.

No. - Number Tested

TL - Total Tanguage

C - Compos te

RC - Reading Comprehension

TM - Total Math



TABLE 7 (Continued) Schools With Substantial Longitudinal Trends in Each of the Last Four Years - Third Quarter

| | <u> </u> | | L 97 | 8-79 | 9 | | • | 1 97 | 9-80 |) | | 1 98 | 3 – 8 | 1 1 | | 1 981 | -82 | |
|-------------------|----------|----------|------|----------|---|-------------|----------|------|------|---|-----|----------|--------------|-----|-----|-------|-----|-------------|
| | No. | | | | | No. | | - | _ | | No. | | | | No. | | | |
| Arcola | 15 | | | | | 15 | · | | | | 12 | | | | | | | |
| Barnsley | 59 | | | | | 52 | | | | | 41 | | | | 54 | | | |
| Brookhaven | 48 | | | | | 31 | | | | | 51 | | | | _53 | | | |
| Brown Station | 33 | | | | | 43 | | | | | 50 | | | | 49 | | | |
| Burtonsville | 35 | | | | | 20 | | | | | 22 | | | | 33 | | | |
| Cannon Road | 66 | L | | | | 48 | | | | | 57 | | L. | | 46 | | | |
| Cloverly | 49 | | | | 4 | 52 | | | | | 72 | | | | 52 | | | |
| Connecticut Park | 32 | <u> </u> | | | | 47 | <u> </u> | | | | 42 | | | | 28 | | | |
| Cresthaven | 28 | | | | | 49 | | | | | 29 | | | | 27 | | | <u> </u> |
| Damascus | 75 | <u> </u> | | | | 69 | | | | | 71 | | | | 65 | | | |
| Fields_Road | 15 | | | | | 31 | | | | | 23 | | | | 36 | | | <u> </u> |
| Flower Valley | 68 | | | <u> </u> | | 60 | | | | | 61 | | | | 35 | | | <u> </u> |
| Forrest Knolls | 38 | | | | | 26 | | | | | 21 | | | | 34 | | | |
| Galway | 37 | | | | | 42 | <u> </u> | , N | | | 45 | | <u>.</u> | | 35 | | | <u>_</u> |
| Garrett Park | 23 | | | | | 26 | | | | | 29 | | | | 17 | | | |
| Greenwood | 74 | | | | | 85 | | | | | 87 | | | | 84 | | | |
| akewood | 40 | | | | | 52 | | | | | 42 | | | | 38 | | | <u></u> |
| Mill Creek Towne | 57 | | | | _ | 63 | | | | | 74 | | | | _60 | | | |
| Oakland Terrace | 39 | | | | | 49 | | | | | 50 | | | | 49 | | | |
| Parkwood | 29 | | | | | 18 | | | | | 29 | · | | | 20 | | | |
| Pine Crest | 22 | | | | | 45 | | | | | 45 | _ | | | 41 | | | |
| Pleasant View | 27 | | | | | _17 | | | | | 26 | | | | 21 | | | |
| Rock Creek Forest | | | | | | | | | | | 23 | | | | 35 | | | |
| Stedwick | 63 | | | | | 69 | | | | | 87 | | | | 66 | | | |
| Stonegate | 42 | | | | | 42 | | | | | 52 | | | | 30 | | | |
| Summit Hall | 45 | | | | | 45 | | | | | 49 | | | | 38 | | | |
| Travilah | 33 | | | | | 38 | | | | | 43 | | | | 40 | | | |
| West Rockville | 3.8 | | | | | 36 | | | | | 40 | | | | 26 | | | |



- School longitudinal trend was at least 8 NCE points higher than the county trend.

- School longitudinal trend was at least 8 NCE points lower than the county trend.

No. - Number Tested

TL - Total Language

C - Composite

RC - Reading Comprehension

TM - Total Math



TABLE 7 (Continued) Schools With Substantial Longitudinal Trends in Each of the Last Four Years - Fourth Quarter

| | | | 9/8 | 7 9 | 7 | | 1 | 97 | -8 0 | | | | 980 | | | | | 981 | | |
|--------------------|-----|--|----------|----------|---|-----|---------------------|------------|-----------------|------------|-----------|----------|----------|----------|--------------------|-----------|--------------|--------------|--------------|--------------|
| | No. | RC | TL | TM | С | No. | RC | TL | TM | _ <u>c</u> | No. | RC | TL | TM | TB | No. | RC | TL | TM | TI |
| Bel Pre | 24 | ! ! | | | | 34 | | | | | 28 | | | 233 | | 27 | | | | |
| Broad Acres | 15 | | , | | | 16 | | | | | 19 | | | | | 11 | | | | \vdash |
| Brookview | 16 | ļ | | | 5317377 | 19 | | | | | | 30.0 | | | | | | | | _ |
| Cashell | 73 | | | | | 76 | | | | | 66 | | | | | <u>65</u> | | | • | _ |
| Clarksburg | 23 | | | mm | 1111111 | 17 | | | 101101 | hsaeád | 28 | | | HEFT | | 31 | <u> </u> | | | L |
| Congressional | 16 | <u> </u> | | | | 11 | - | | | | 19 | _ | _ | | | 17 | | | | \vdash |
| Four Corners | 29 | <u> </u> | | | | 27 | <u> </u> | L | | | 31 | | | | | 37 | - | <u> </u> | | ┡ |
| Gaithersburg | 37 | <u> </u> | | | | 45 | ; 1 - | | | | 50 | <u> </u> | | <u> </u> | | 50 | | - | | - |
| Glen Haven | 35 | _ | <u> </u> | <u> </u> | | 47 | ļ | _ | <u> </u> | | 39 | _ | <u> </u> | | | 48 | <u> </u> | | | L |
| Glenallan | 45 | <u> </u> | <u> </u> | | | 47 | | <u> </u> | niana. | | 31 | - | _ | _ | | 35 | - | - | - | |
| Harmony Hills | 50 | | | | | 43 | <u> </u> | <u> </u> | | L | 34 | | _ | _ | - | 46 | ├ - | - | | ╀ |
| Highland | 45 | | | | <u> </u> | 51 | | _ | | | 77 | - | _ | _ | | 65 | | - | - | ╀ |
| Lone Oak | 31 | <u> </u> | | | | 44 | ļ | _ | | | 31 | | | _ | - | 39 | | - | | ╀ |
| Lynnbrook | 13 | $oxed{oxed}$ | _ | | _ | 16 | _ | | <u> </u> | | 11_ | | ļ | - | | 18 | <u> </u> | \vdash | - | ╀ |
| Maryvale | 45 | <u> </u> | <u> </u> | | | 50 | ļ | | <u> </u> | | <u>47</u> | <u> </u> | ļ | - | <u> </u> | 46 | - | — | ├ | \downarrow |
| Monocacy | 27 | _ | 112121 | 0111111 | 1 | 16 | | <u> </u> | | <u> </u> | 21 | - | 1 | 1000 | | 25 | ↓ _ | K111111 | - | ╀ |
| Montrose | 23 | | | | | 20 | _ | L | _ | _ | 13 | <u> </u> | | | | 17 | ├ | | - | + |
| Oak View | 23 | | <u> </u> | <u> </u> | | 27 | | _ | 1_ | <u> </u> | 34 | - | <u> </u> | | - | 31 | | | ├- | \downarrow |
| Poolesvill | 78 | | | <u> </u> | <u> </u> | 71 | <u> </u> | - | <u> </u> | _ | 90 | ļ. | <u> </u> | | <u> </u> | 70 | - | - | | + |
| Rocking Horse Road | 38 | _ | | _ | | 39 | ↓ | _ | - | <u> </u> | 32 | ļ | | igspace | | 29 | | | - | \downarrow |
| Rosemont | 16 | | <u> </u> | | | 27 | _ | lacksquare | <u> </u> | <u> </u> | 23 | | _ | | | 25 | ∔- | 1 | - | ╄ |
| Sherwood | 59 | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | | <u> </u> | | 67 | _ | _ | 1 | <u> </u> | 53 | | _ | | | 59 | - | ╁ | | ╀ |
| Strathmore | 37 | | | _ | <u> </u> | 28 | | | ↓ | <u> </u> | 32 | | | L | | 34 | ∔- | ╄- | | + |
| Twinbrook | 39 | _ | | _ | <u> </u> | 45 | 1 | _ | <u> </u> | igspace | 51 | \perp | ↓_ | | | 38 | - | \bot | - | + |
| Viers Mill | 52 | \perp | | _ | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ | 41 | _ | 1- | _ | _ | 52 | _ | | igspace | | 39 | 1 | ╁ | ╁ | \downarrow |
| Washington Grove | 43 | \perp | 1_ | _ | | 43 | | _ | <u> </u> | _ | 40 | | _ | _ | 1 | 35 | - | | _ | \downarrow |
| Watkins Mill | 58 | \perp | _ | _ | _ | 51 | \perp | 1_ | 1 | lacksquare | 39 | 1 | 1_ | 1 | 1 | 45 | ↓_ | | _ | 4 |
| Weller Road | 53 | | | _ | <u> </u> | 60 | 1_ | _ | ↓_ | <u> </u> | 63 | _ | \perp | - | | 44 | igapha | 1 | 1 | 1 |
| Wheaton Woods | 47 | | | | | 46 | | | | | 57 | _ | \perp | 1 | $oldsymbol{\perp}$ | 66 | | <u>.</u> | <u> </u> | \perp |



- School longitudinal trend was at least 8 NCE points higher than the county trend.

- School longitudinal trend was at least 8 NCE points lower than the county trend.

No. - Number Tested

TL - Total Language

C - Composite

RC - Reading Comprehension

TM - Total Math



TABLE 8

RESULTS FOR STUDENTS TESTED IN PAIRED SCHOOLS IN GRADE 3

(ITBS, SPRING 1980) AND GRADE 5 (CAT, FALL 1981)

| | | | | Reading | Comprehension | La | anguage | P | lath | Tota | l Battery |
|-----------------|--------|-------|--------|---------|---------------|------|------------|------|------------|--------|------------|
| | | | | 1 | Percentile |] | Percentile | | Percentile | | Percentile |
| | Schoo1 | | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| School | No. | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| East Silver | | | | | | | | | | | · · |
| Spring | 756 | 3 | 21 | 55 | 59 | 63 | 73 | 56 | 61 | 60 | 68 |
| Piney Branch | 749 | 5 | 21 | 59 | 67 | 63 | 73 | 57 | 63 | 60 | 68 |
| New Hampshire | | | - | | | | | | | | |
| Estates | 7 91 | 3 | 24 | 56 | 61 | 67 | 79 | 63 | 73 | 63 | 73 |
| Brookview | 307 | 5 | 24 | 48 | 46 | 56 | 61 | 56 | 61 | 54 | 58 |
| Rolling Terrace | 771 | 3 | 19 | 50 | 50 | 67 | 79 | 56 | 61 | 60 | 68 |
| Oakview | 766 | 5 | 19 | 59 | 67 | 64 | 75 | 58 | 65 | 60 | 68 |
| Takoma Park | 754 | 3 | 64 | 56 | 61 | 57 | 63 | 56 | 61 | 57 | 63 |
| Piney Branch | 749 | 5 | 64 | 58 | 65 | 56 | 61 | 53 | 56 | 56 | 61 |
| Woodlin | 764 | 3 | 33 | 57 | 63 | 60 | 68 | 52 | 54 | 56 | 61 |
| Woodside | 752 | 5 | 33 | 65 | 76 | 65 | 73 | 71 | 84 | 67 | 79 |



Nonlongitudinal Trends

Trends of scores between groups of students tested in a school only once (Grade 3 ITBS or Grade 5 CAT) are reported in Table 9. These nonlongitudinal data are analyzed in a way similar to the school longitudinal data. The county trend for students tested in a school only once (shown in Table 5) is used as a baseline against which to evaluate the magnitude of the school trend. For any school a trend substantially above (+) or below (-) the county trend is probably an indication of a population shift in the school. If either group in a school has fewer than 10 students, no results are reported for that school.

Table 10 contains a summary of four years of school nonlongitudinal analysis. This table has the same format as Table 7. No data are presented for a school in a year if there were fewer than 10 students in the third and/or fifth grade group.



TABLE 9

SCHOOL NONLONGITUDINAL RESULTS FOR STUDENTS TESTED IN A SCHOOL ONLY IN GRADE 3

(ITBS, SPRING 1980) OR GRADE 5 (CAT, FALL 1981)

| | | | | | eading | | | | | | |
|---------------|--------|--------|--------------|-------------------|------------|--------------|------------|----------|------------|-------------|------------|
| | | | | Comp | rehension | L | anguage | | Math | Tota | 1 Battery |
| | | | • | | Percentile | | Percentile | | Percentile | | Percentile |
| 0 -11 | School | | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| School_ | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| Arcola | 790 | 3 | 13 | 42 | 35 | 56 | 61 | 52 | 54 | 52 | 54 |
| | | 5 | 13 | 54+ | 58 | 57 | 63 | 64+ | 75 | 57 | 63 |
| Ashburton | 425 | 2 | 1.2 | 7. | 0.6 | -, | | | | | |
| ASHDULLOH | 423 | 3 5 | 13 32 | 73 58 - | 86 | 74 | 87 | 72 | 85 | 74 | 87 |
| | | | 32 | _ 58 - | 65 | 62- | 72 | 60- | 68 | 61- | 70 |
| Bannockburn | 420 | 3 | 11 | 67 | 79 | 77 | 90 | 71 | 84 | 73 | 86 |
| | | 5 | 10 | 65 | 76 | 63- | 73 | 65- | 76 | 67 | 79 |
| Barnsley | 505 | 2 | 12 | ٠, | 50 | | | | | | |
| Darnstey | 303 | 3 5 | 31 | 54 67+ | 58 79 | 62 75 t | 72 | 53 | 56 | 56 | 61 |
| | | | | 0/+ | | 75+ | 88 | 69+ | 82 | <u>7</u> 1+ | 84 |
| Belmont | 513 | 3 | 16 | 61 | 7 0 | 69 | 82 | 65 | 76 | 67 | 79 |
| | | 5 | 10 | 67 | 79 | 76+ | 89 | 66 | 78 | 72 | 85 |
| Beverly Farms | 226 | 3 | 15 | 67 | 79 | 81 | 93 | 77 | 00 | 7. | |
| beverly raims | 220 | . 5 | 14 | 75 | 88 | 83 | 93 94 | 77 87 | 90 96 | 76 84 | 89 05 |
| | | | | | | | | - 07 | | 04 | 95 |
| Broad Acres | 304 | 3 | 13 | 35 | 24 | 42 | 35 | 39 | 30 | 36 | 25 |
| | | 5 | 17 | 48+ | 46 | 54+ | 58 | 51+ | 52 | 50+ | 50 |
| Brookview | 307 | 3 | 14 | 47 | 44 | 62 | 72 | E0. | 5 , | | |
| 21001171611 | 307 | 5 | 40 | 46 | 42 | 53 – | 72 56 | 52 55 | 54 59 | 55 51 | 59 |
| | | | _ | | 72 | | | | | | 52 |
| Brown Station | 559 | 3 | 43 | 57 | 63 | 61 | 70 | 51 | 52 | 57 | 63 |
| | | 5 | 27 | 61 | 70 | _70 + | 83 | 69+ | 82 | 67+ | |
| Burning Tree | 419 | 3 | 10 | <i>c I</i> . | 75 | 75 | 00 | 70 | | | |
| DOLUTUS 1166 | 413 | 5 5 | 44 | 64 74 | 75 87 | 75 81 | 88 93 | 78 | 91 | 73 | 86 |
| | | | | | 0/ | <u> </u> | <u></u> | 81 | 93 | 81 | 93 |



TABLE 9 (Continued)

| | | | | | eading ehension | | anguage | | Math` | Tota | 1 Battery |
|---------------------|--------|--------|--------|-------|--------------------|--|------------|--|-------------|-------------|------------|
| | | | | Сощрі | Percentile | | Percentile | | Percentile | | Percentile |
| | | | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| a 1 1 | School | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| School | Number | Grade | restea | Hean | or near | | 02 110411 | | | | |
| Candlewood | 508 | 3 | 18 | 58 | 65 | 67 | 79 | 60 | 68 | 65 | 76 |
| Calidiewood | 500 | 5 | 15 | 60 | 68 | 66 | 78 | 65 | 76 | 66 | 78 |
| | | | | | | 22 | 07 | 000 | 97 | 90 | 97 |
| Carderock Sp | 604 | 3 | 11 | 78 | 91 | 90 | 97 22 | 90 65- | 76 | 67 – | 79 |
| | | 5 | 16 | 63- | 73 | 69- | 82 | 03- | | 07- | |
| 0 1-11 | 511 | 3 | 11 | 52 | 54 | 53 | 56 | 49 | 48 | 53 | J 6 |
| Cashell | 211 | 5 | 24 | 69+ | 82 | 69+ | 82 | 66+ | 78 | 69 | 82 |
| | | | | | | | | | | | |
| Chevy Chase | 403 | 3 | 16 | 64 | 75 | 69 | 82 | 61 | 70 ; | 68 | 80 |
| onevy onase | | 5 | 26 | 57- | 63 | 63 | 73 | 65 | 76 | 63 | 73 |
| | | | | (1) | 70 | 75 | 88 | 71 | 84 | 71 | 84 |
| Cold Spring | 238 | 3 | 13 | 63 | 73 82 | 79 | 92 | 70 | 83 | 75 | 88 |
| | | 5 | 15 | 69 | | 13 | - 72 | | | | |
| a. 11 a. a. Camdana | 229 | 3 | 25 | 54 | 58 | 66 | 78 | 64 | 75 | 64 | 75 |
| College Gardens | 229 | 5 | 22 | 65 | 76 | 61 | 70 | 60- | 68 | 63 | 73 |
| | | | | · | | | | | | | |
| Congressional | 218 | 3 | 22 | 54 | 58 | 69 | 82 | 74 | 87 | 65 | 76 |
| Congressionar | | 5 | 15 | 58 | 65 | 62 | 72 | 68- | 80 | 64 | 75 |
| | | | | | | | 07 | 63 | 73 | 69 | 82 |
| Diamond | 570 | 3 | 24 | 66 | 78 | 73 | 86 | 73 | 73 86 | 69 | 82 |
| | | 5 | 13 | 63 | 73 | 65 | 76 | 13- | | 1-07 | |
| _ | 0/1 | 4 | 21 | 61 | 70 | 65 | 76 | 64 | 75 | 64 | 7 5 |
| Dufief | 241 | 3 5 | 16 | 62 | 70 72 | 62 | 72 | 69 | 82 | 66 | 78 |
| | | | | 1 02 | | | | | | | |
| Fairland | 303 | 3 | 15 | 56 | 61 | 64 | 75 | 58 | 65 | 60 | 68 |
| Latitand | 303 | 5 | 27 | 51- | 52 | 54- | 58 | 54 | 58 | 54 | 58 |



TABLE 9 (Continued)

| | | | | 6 | eading | - | | | | | - . |
|-----------------|----------|-------|--------|------|------------|--------------|------------|----------|------------|------|----------------|
| | | | | Comp | rehension | L | anguage | | Math | Tota | 1 Battery |
| | | | _ | | Percentile | | Percentile | | Percentile | | Percentile |
| | School | _ | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| School | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| Fallsmead | 233 | 3 | 11 | 62 | 72 | 70 | 83 | 63 | 73 | 69 | 82 |
| | | 5 | 13 | 62 | 72 | 64 | 75 | 56- | 61 | 62- | 72 |
| Fields Road | 566 | 3 | 30 | 51 | 52 | 57 | 63 | 45 | 41 | 50 | 50 |
| | | 5 | 13 | 63+ | 73 | 62 | 72 | 56 | 61 | 60+ | 68 |
| Flower Valley | 506 | 3 | 12 | 66 | 78 | 66 | 78 | 71 | 84 | 70 | 02 |
| | | 5 | 55 | 66 | 78 | <u>73</u> + | 86 | 64- | 75 | 68 | 83 80 |
| Four Corners | 763 | 3 | 10 | 41 | 33 | 42 | 35 | 40 | 32 | 39 | 30 |
| | | 5 | 12 | 79+ | 92 | 7 <u>5</u> + | 88 | 75+ | 88 | 77+ | 90 |
| Fox Chapel | 106 | 3 | 21 | 48 | 46 | 56 | 61 | 56 | 61 | 52 | 54 |
| <u> </u> | | 5 | 28 | 56 | 61 | 61 | 70 | 58 58 | 65 | 59 | 67 |
| Gaithersburg | 553 | 3 | 40 | 52 | 54 | 51 | 52 | 51 | 52 | 50 | 50 |
| | | 5 | 32 | 61 | 70 | 65+ | 76 | 62 | 72 | 63+ | 73 |
| Garrett Park | 204 | 3 | 13 | 52 | 54 | 65 | 76 | 51 | 52 | 56 | 61 |
| | <u>_</u> | 5 | 10 | 62 | 72 | 66 | 78 | 64+ | 75 | 65+ | 76 |
| Georgetown Hill | 221 | 3 | 27 | 61 | 70 | 69 | 82 | 63 | 73 | 66 | 78 |
| | | 5 | 14 | 58 | 65_ | 66 | 78 | 70 | 83 | 66 | 78 |
| Georgian Forest | 316 | 3 | 16 | 60 | 68 | 66 | 78 | 62 | 72 | 64 | 75 |
| | | 5 | 27 | 56- | 61 | 61 | 70 | 66 | 78 | 62 | 72 |
| Germantown | 102 | 3 | 26 | 52 | 54 | 62 | 72 | 54 | 58 | 55 | 59 |
| <u> </u> | | 5 | 23 | 57 | 63 | 58 | 65 | 64 | 75 | 61 | 70 |



TABLE 9 (Continued)

| | | | | | eading | _ | | | | W - + - | 1 Dattaur |
|---|--------|--------|--------|-------|------------|------|------------|--------|------------|---------|-------------------------|
| | | | | Compi | ehension | L | anguage | | Math | Tota | 1 Battery Percentile |
| | | | | | Percentile | | Percentile | | Percentile | MOH | Rank |
| | Schoo1 | | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | |
| School | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean · | of Mean | Mean | of Mean |
| Glen Haven | 767 | 3 | 26 | 53 | 56 | 65 | 76 | 60 | 68 | 60 | 68 |
| | | 5 | 19 | 45- | 41 | 49- | 48 | 52- | 54 | 48- | 46 |
| Glenallan | 817 | 3 | 19 | 54 | 58 | 66 | 78 | 52 | 54 | 57 | 63 |
| Glenallan | 017 | 5 | 12 | 53 | 56 | 56- | 61 | 60 | 68 | 57 | 63 |
| C | 512 | 3 | 16 | 52 | 54 | 63 | 73 | 47 | 44 | 56 | 61 |
| Greenwood | 312 | 5 | 13 | 59 | 67 | 63 | 73 | 60+ | 68 | 62 | 72 |
| *************************************** | 797 | 3 | 19 | 49 | 48 | 59 | 67 | 52 | 54 | 54 | 58 |
| Harmony Hills | 131 | 5 | 21 | 46 | 42 | 50- | 50 | 50 | 50 | 48 | 46 |
| Highland | 774 | 3 | 29 | 50 | 50 | 61 | 70 | 58 | 65 | 56 | 61 |
| mightand | | 5 | 21 | 46- | 42 | 49- | 48 | 50- | 50 | 48- | 46 |
| Hungerford Park | 214 | 3 | 27 | 51 | 52 | 63 | 73 | 58 | 65 | 58 | 65 |
| | | 5 | 24 | 58 | 65 | 57 | 63 | 60 | 68 | 58 | 65 |
| Jackson Road | 305 | 3 | 31 | 63 | 73 | 69 | 82 | 63 | 73 | 66 | 78 |
| | | 5 | 24 | 54- | 58 | 56- | 61 | 55- | 59 | 55- | 59 |
| Lakewood | 209 | 3 | 12 | 51 | 52 | 67 | 79 | 60 | 68 | 61 | 70 |
| Lakewood | 205 | 5 | 10 | 66+ | <u></u> | 71 | 84 | 69 | 82 | 71+ | 84 |
| I and Oak | 205 | 3 | 20 | 45 | 41 | 47 | 44 | 44 | 39 | 46 | 42 |
| Lone Oak | 203 | 5 | 10 | 54 | 58 | 53 | 56 | 58+ | 65 | 55+ | 59 |
| | 210 | 3 | 14 | 42 | 35 | 34 | 22 | 37 | 27 | 37 | 27 |
| Maryvale | 210 | 5 5 | 10 | 37- | 27 | 45+ | 41 | 43 | 37 | 42 | 35 |



TABLE 9 (Continued)

| | | | _ | | eading | | | | | | |
|-----------------|-------------|---------------|----------|-------------------|------------|-----------|------------|----------|------------|-------------|------------|
| | | | | Comp | rehension | L | anguage | | Math | Tota | 1 Battery |
| | | | • | | Percentile | | Percentile | | Percentile | | Percentile |
| 0-11 | School | | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| School | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| Meadow Hall | 212 | 3 | 21 | 57 | 63 | 67 | 79 | 64 | 75 | 63 | 73 |
| | | 5 | 15 | 53- | 56 | 52- | 54 | 46- | 42 | 49- | 48 |
| Mill Ck Towne | 556 | 3 | 12 | 59 | 67 | 67 | 7.0 | - | | | |
| TILLE CK TOWIE | 550 | 5 | 12 | 55- | 59 | 67 50 | 79 65 | 60 | 68 | 63 | 73 |
| | | | | _ 55- | 39 | 58- | 65 | 62 | 72 | 59 | 67 |
| N Chevy Chase | 415 | 3 | 16 | 66 | 78 | 73 | 86 | 78 | 91 | 75 | 88 |
| | | 5 | 17 | 65 | 76 | 72 | 85 | 68- | 80 | 70 | 83 |
| Oak View | 766 | 3 | 1.4 | 43 | 27 | 4.0 | 4.0 | | | | |
| Oak view | 760 | 5 | 14 52 | 43 56+ | 37 61 | 49 58+ | 48 65 | 45 56 | 41 | 46 | 42 |
| | | | | - JU T | - 01 | | | 96 | 61 | 56+ | 61 |
| Oakland Terrace | 769 | 3 | 12 | 67 | 79 | 71 | 84 | 66 | 78 | 69 | 82 |
| | | 5 | 12 | 56- | 61 | 59 | 67 | 62- | 72 | 60- | 68 |
| 01ney | 502 | 3 | 17 | 56 | 61 | 64 | 75 | 57 | (2) | 60 | |
| | 302 | 5 | 13 | 52 ~ | 54 | 61 | 75 70 | 57 55 | 63 59 | 60 55 | 68 59 |
| | | | | - | | | | | | | |
| Parkwood | 783 | 3 | 12 | 60 | 68 | 66 | 78 | 66 | 78 | 65 | 76 |
| | | 5 | 22 | 58 | 65 | 61 | 70 | 52- | 54 | 57 <i>-</i> | 63 |
| Pine Crest、 | 761 | 3 | 18 | 51 | 52 | 59 | 67 | 54 | 58 | 55 | 59 |
| _ _ | | 5 | 17 | 46- | 42 | 47- | 44 | 44- | 39 | 44- | 39 |
| D1!11 | 150 | • | 0.7 | | | | | | | | |
| Poolesville | 153 | 3 5 | 20 11 | 58 50 ~ | 65 50 | 60 53 | 68 | 58 | 65 | 61 | 70 |
| | | <u> </u> | 11 | 30 - | _50 | 53 | 56 | 46- | 42 | 50- | 50 |
| Potomac | 601 | 3 | 10 | 63 | 73 | 76 | 89 | 73 | 86 | 74 | 87 |
| | | 5 | 17 | 70 | 83 | 76 | 89 | 75 | 88 | 74 | 87 |



TABLE 9 (Continued)

| | | | | B . | eading rehension | L | anguage | | Math | Tota | 1 Battery |
|-----------------|--------|----------|--------|------|---------------------|------|------------|------|------------|------|------------|
| | | | | | Percentile | | Percentile | | Percentile | | Percentile |
| | School | | Number | NCE | Rank | NCE | Rank | NCE | Rank | NCE | Rank |
| School | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| Ritchie Park | 227 | 3 | 13 | 62 | 72 | 74 | 87 | 69 | 82 | 70 | 83 |
| CICCIIE TAIR | | 5 | 12 | 77+ | 90 | 75 | 88 | 73 | 86 | 76 | 89 |
| Rock Ck Forest | 773 | 3 | 11 | 49 | 48 | 61 | 70 | 54 | 58 | 55 | 59 |
| XOCK CK FOIEST | | 5 | 11 | 59 | 67 | 56 | 61 | 57 | 63 | 59 | 67 |
| Rocking Horse ! | 24 785 | 3 | 25 | 45 | 41 | 54 | 58 | 50 | 50 | 50 | 50 |
| ROCKING HOISE | | 5 | 14 | 50 | 50 | 45- | 41 | 47 | 44 | 46 | 42 |
| Rosemont | 555 | 3 | 14 | 45 | 41 | 52 | 54 | 53 | 56 | 51 | 52 |
| XOSEMONE | | . 3 5 | 15 | 52 | 54 | 60+ | 68 | 58 | 65 | 55 | 59 |
| Saddlebrook | 821 | 3 | 10 | 56 | 61 | 64 | 75 | 63 | 73 | 62 | 72 |
| | | 5 | 11 | 61 | 70 | 62 | 72 | 60 | 68 | 62 | 72 |
| Sherwood | 501 | 3 | 10 | 43 | 37 | 57 | 63 | 54 | 58 | 50 | 50 |
| | | 5 | 18 | 61+ | 70 | 62 | 72 | 61 | 70 | 62+_ | 72 |
| South Lake | 564 | 3 | 29 | 55 | 59 | 67 | 79 | 59 | 67 | 63 | 73 |
| | | 5 | 20 | 58 | 65 | 59 | 67 | 55- | 59 | 58 | 65 |
| Stedwick | 568 | 3 | 13 | 63 | 73 | 68 | 80 | 59 | 67 | 66 | 78 |
| | | 5 | 36 | 61 | 70 | 65 | 76 | 66 | 78 | 64 | 75 |
| Strathmore | 822 | 3 | 24 | 48 | 46 | 52 | 54 | 43 | 37 | 49 | 48 |
| | | 5 | 12 | 45 | 41 | 50 | 50 | 46 | 42 | 47 | 44 |
| Summit Hall | 563 | 3 | 34 | 55 | 59 | 64 | 75 | 59 | 67 | 61 | 70 |
| | | 5 | 18 | 62 | 72 | 58 | 65 | 65 | <u>76</u> | 64 | 75 |

TABLE 9 (Continued)

| | | | | | eading | | | | | | |
|----------------|--------|--------|--------|------|------------|------|------------|-------------|------------|-----------------|------------|
| | | | | Comp | rehension | L, | anguage | | Math | Tota | l Battery |
| | a 1 1 | | | | Percentile | | Percentile | | Percentile | | Percentile |
| 0 -1 1 | School | | Number | NCE | Rank | NCE | Rank | NCE | Rank | MCE | Rank |
| School | Number | Grade | Tested | Mean | of Mean | Mean | of Mean | Mean | of Mean | Mean | of Mean |
| Travilah | 216 | 3 | 16 | 61 | 70 | 63 | 73 | 62 | 72 | 64 | 75 |
| | | 5 | 13 | 62 | 72 | 65 | 76 | 64 | 75 | 63 | 73 73 |
| Twinbrook | 206 | 3 | 24 | 55 | F.O. | | | | | | |
| 121.02.001. | 200 | 5 | 19 | 1 | 59 | 61 | 70 | 52 | 54 | 55 | 59 |
| | | | 19 | 50- | 50 | 53 | 56 | 54 | 58 | 53 | 56 |
| Viers Mill | 772 | 3 | 10 | 60 | 68 | 64 | 75 | 65 | 76 | 64 | 75 |
| | | 5 | 11 | 56- | 61 | 60 | 68 | 57 - | 63 | 56 - | 61 |
| Watkins Mill | 561 | 2 | 00 | | | | | | | | |
| Watkins Mili | 201 | 3 | 20 | 62 | 72 | 60 | 68 | 60 | 68 | 62 | 72 |
| | | 5 | 21 | 60 | 68 | 67+ | 79 | 58 | 65 | 58 | 65 |
| Wayside | 235 | 3 | 10 | 61 | 70 | 70 | 83 | 62 | 72 | 66 | 78 |
| | | 5 | 10 | 72 | 85 | 85+ | 95 | 74+ | 87 | 77+ | 90 |
| ** 11 | | | _ | | | | | | | 1.65 | |
| Weller Road | 777 | 3 | 25 | 48 | 46 | 60 | 68 | 47 | 44 | 52 | 54 |
| | | 5 | 13 | 60+ | 68 | 62 | 72 | 61+ | 70 | 61+ | 70 |
| West Rockville | 207 | 3 | 12 | 52 | 54 | 60 | 68 | 44 | 39 | | |
| | | 5 | 14 | 66+ | 78 | 66 | 78 | 55 | 59 | 51 60+ | 52 |
| | | | | | | | | | | 00 + | 68 |
| Westover | 504 | 3 | 10 | 60 | 68 | 76 | 89 | 71 | 84 | 72 | 85 |
| | | 5 | 10 | 69 | 82 | 65- | 76 | 74 | 87 | 71 | 84 |
| Wheaton Woods | 788 | 2 | 10 | ,, | 20 | | | | | | |
| mileaton WOOUS | 700 | 3 5 | 12 | 44 | 39 | 48 | 46 | 46 | 42 | 46 | 42 |
| | | | 12 | 56+ | 61 | 60+ | 68 | 54 | 58 | 58+ | 65 |
| Whetstone | 558 | 3 | 24 | 69 | 82 | 79 | 92 | 71 | 84 | 75 | - |
| | | 5 | 33 | 65- | 76 | 66- | 78 | | | 75 | 88 |
| | | | | | 70 | 00- | /8 | <u>65-</u> | 76 | 66- | 78 |



TABLE 9 (Continued)

| | | | | | eading rehension | L | anguage | _ | Math | Tota | al Battery |
|------------|------------------|--------|------------------|-------------|-------------------------------|----------|-------------------------------|-------------------|-------------------------------|-------------|-------------------------------|
| School | School Number | Grade | Number Tested | NCE Mean | Percentile Rank of Mean | | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean | NCE Mean | Percentile Rank of Mean |
| Wood Acres | 417 | 3 5 | 15 12 | 56 73+ | 61 86 | 66 72 | 78 85 | 54 71 + | 58 84 | 61 74+ | 70 87 |
| Wyngate | 422 | 3 5 | 14 14 | 73 66- | 86 78 | 77 69 | 90 82 | 72 69 | 85 82 | 77 68- | 90 80 |



TABLE 10 Schools With Substantial Nonlongitudinal Trends in Each of the Last Four Years - First Quarter

| | | | . 978 | 3-79 |) — | <u> </u> | 1 | . 97 9 | - 80 | | | 1 | 980 | -8 1 | L | | 1 | 981 | -82 | |
|----------------------|-------------|----------|-------|----------|----------|----------|----|--------|-----------------|----------|-------|---------|---------|-----------------|----------|-------|---|----------|---------|--|
| | No. | | | | | No. | RC | TL | TM | C | No. | | | | | No. | | | | |
| Ashburton | | | | | | 11/23 | | | | | - | | _ | L | | 13/32 | | | | |
| Ayrlawn | <u> </u> | | | | | | | | | | - | | | | | _ | | | | |
| Bannockburn | 12/18 | | | | | 13/14 | | | | | 14/13 | | | | | 11/10 | | | | |
| Bells Mill | 17/22 | | | | | 11/14 | | | | L. | | | | | | | | | | |
| Beverly Farms | _ | | | | | 11/26 | | | | | 14/11 | | | | | 15/14 | | | | |
| Bradley | | | | | | 13/12 | | | | | | | | | | | | | | |
| Brookhaven | 13/17 | | | | | 19/12 | | | | | 20/23 | | | | | | | | | |
| Brookmont | | | L | | | 13/10 | | | | 1 | | | | | | | | | | |
| Burning Tree | | | | | | 13/39 | | | | | | | | | | 10/44 | | | | |
| Carderock Springs | _ | | | <u> </u> | | | | | | | 13/13 | | | | | 11/16 | | | | |
| Cloverly | 12/21 | | | | | 14/11 | | | | | 15/13 | | | L. | | | | | | |
| Cold Spring | 29/13 | | | | ļ | 23/17 | | L | | | 17/14 | | | | | 13/15 | | | | |
| Cresthaven | 10/18 | <u> </u> | | <u> </u> | <u> </u> | | | | | | - | | 7111177 | | | | | | | |
| Damascus | | | _ | <u> </u> | | 16/23 | | | | | 14/16 | | | | | | | | | |
| Darnestown | | | | | | 12/32 | | | | , | - | | | | | | | L_ | | |
| Farmland | | | | | | - | | | | | | | | | | | | | | |
| Flower Valley | 18/23 | | | | | 23/19 | | _ | | | 15/13 | | | | <u> </u> | 12/55 | | | | |
| Kemp Mill | | | ļ | <u> </u> | | | | | | <u> </u> | | | | | | | | | | |
| Lake Normandy | 17/18 | | | | | 13/20 | | | | | 16/18 | | | | | - | | | | |
| N. Chevy Chase | 16/20 | | | | | - | | | | | | | | <u> </u> | <u> </u> | 16/17 | | | | |
| William Tyler Page | 13/12 | | | | | 16/11 | | | | <u> </u> | - | | | | <u> </u> | - | | | | |
| Potomac | <u> </u> | | | ļ | | 12/25 | | | 1000 | | 15/24 | | | _ | | 10/17 | | | | |
| Ritchie Park | 14/26 | 7.101 | | | | 22/16 | | | | | | | | | | 13/12 | | ******** | 771111 | |
| Rock Creek Palisades | 19/16 | | | | | 15/15 | | | | | 18/15 | igsqcup | | _ | | 10/11 | | | | |
| Somerset | 18/43 | | | <u> </u> | | 17/35 | | | | | 16/24 | | | | | | | | | |
| Westbrook | <u> </u> | | | | | 10/11 | | _ | | | | | | | | | | 1111111 | | |
| Westover | <u> -</u> | _ | | 1,,,,,,, | | | | | | (1111) | 12/16 | | | | | 10/10 | | | (1)1112 | |
| Whetstone | 25/41 | | _ | | | 14/29 | | | | | 26/35 | | | | 1 | 24/33 | Щ | | | |
| Wyngate | 25/17 | | | | | 16/27 | | | | | | | | | | 14/14 | | | | |



- School nonlongitudinal trend was at least 8 NCE points higher than the county trend.

— School nonlongitudinal trend was at least 8 NCE points lower than the county trend.

No. - Number Tested, Grade 3/Grade 5

TL - Total Language

C - Composite

RC - Reading Comprehension

TM - Total Math



TABLE 10 (Continued) Schools With Substantial Nonlongitudinal Trends in Each of the Last Four Years - Second Quarter

| | <u> </u> | 1978 | - 79 | _ | | 1 | 979 | -80 | - | | 19 | 980 | -8 1 | | | 1 | 981 | -8 2 | \neg |
|------------------|----------|------|-----------------|---|-------|---------|--------|-----|---------|-------|----|--------|-----------------|----|-------|-----|-----|-----------------|--------|
| | No. RC | | | _ | No. R | C J | TL | TM | С | No. | RC | "L | TM | ТВ | No. | | | | 1 |
| Belmont | 26/15 | | | | 26/13 | \perp | | | | 11/11 | | | | | 16/10 | | | | |
| Bel Pre | 14/18 | | | | | | | | | 11/13 | | | | | | | | | |
| Candlewood | 24/18 | , 44 | | | 19/21 | | | | | 22/15 | | | | | 18/15 | | | | |
| Chevy Chase | 12/53 | | | | 35/31 | ↲ | | | | 18/29 | | | | | 16/26 | | | | |
| College Garden | 38/46 | | | | 19/53 | | | | 11:1117 | 33/25 | | | | | 25/22 | | | | |
| Congressional | 12/21 | | | | 16/12 | | | | | | | | | | 22/15 | | | | |
| Connecticut Park | 16/14 | | \bot | | 13/14 | *** | | | | 23/13 | | | | | _ | | | | |
| Diamond | 33/31 | | | | 21/23 | | | | | 23/23 | | | | | 24/13 | | | | |
| Dufief | 17/27 | | | | 10/23 | | | | | | | | | | 27/16 | | | | |
| Fallsmead | 23/18 | | | | 16/18 | | | | | 20/11 | | | | | 11/13 | | | | |
| Galway | 15/15 | | | | | _ | | | | | | | | | | | | | |
| Georgetown Hill | | | | | 18/42 | \perp | | | | 18/19 | | | | | 27/14 | | | | |
| Georgian Forest | 17/29 | | | | 13/23 | | | | | - | | | | | 16/27 | | | | |
| Jackson Road | 10/70 | | | | 37/29 | | | | | 16/27 | | | | | 31/24 | | | | |
| Kensington | | | | | | | | | | - | | | | | - | | | | |
| Laytonsville | 46/39 | | | | 41/40 | | | | | 16/22 | | | | | | | | | |
| Luxmanor | | | | | _ | | | | | | | | | | _ | | | | |
| Oakland Terrace | 19/25 | | | | 22/17 | | | | | 25/15 | | | | | 12/12 | | | | |
| Parkwood | 14/13 | | | | | | | | | 13/17 | | | | | 12/22 | | | | |
| Pleasant View | 15/16 | | | | 21/13 | | ****** | | | 11/13 | | | | | - | | | | |
| Radnor | 19/15 | | | | 10/21 | | | | | 11/10 | | | | | _ | | | | |
| Rollingwood | 11/17 | | | | 13/17 | | | | | - | | | | | | | | | |
| Stedwick | 24/48 | | | | 26/37 | \perp | | | | 28/33 | | | | | 13/36 | | | | |
| Stonegate | 15/10 | | | | | | | | | | | | | | | | | | |
| Travilah | - | | \perp | | | ┙ | | | | _ | | an ele | 11111111 | | 16/13 | 177 | | | |
| Viers Mill | 27/24 | | | | 20/22 | | | | | 15/12 | | | | | 10/11 | | | | |
| Wayside | 26/18 | | | | 20/17 | | | | | 16/14 | | | <u>'</u> | | 10/10 | | | | |



7 - School nonlongitudinal trend was at least 8 NCE points higher than the county trend. - School nonlongitudinal trend was at least 8 NCE points lower than the county trend.

No. - Number Tested, Grade3/Grade 5

TL - Total Language

C - Composite

RC - Reading Comprehension

TM - Total Math



TABLE 10 (Continued) Schools With Substantial Nonlongitudinal Trends in Each of the Last Four Years - Third Quarter

| | 1 978 | - 79 | 1 | 97 9- 80 | 1 | | 1 9 80 |) - 81 | | L 981 -82 |
|-------------------|-----------|-------------|--------|-----------------|-----|------------|---------------|-------------------|----------|--|
| | No. RCITL | | No. RC | | C N | | | TM TB | 1 | TL TM TB |
| Barnsley | 13/18 | | - | | | /36 | 7 | | 12/31 | |
| Bethesda | 17/16 | | 14/18 | | | <u>- </u> | | | | |
| Brown Station | 28/42 | | 43/36 | | 37 | /36 | | | 43/27 | |
| Cannon Road | 19/10 | | 11/21 | | 11 | /19 | | | | |
| Cedar Grove | 22/11 | | 24/15 | | | _ | | | | |
| Fairland | 24/17 | | 17/26 | | 19 | /25 | _ | | 15/27 | |
| Forest Grove | 17/11 | | - | | | - | <u> </u> | | | |
| Forrest Knolls | | | | | 17 | /16 | <u> </u> | | - | |
| Garrett Park | _ _ | | - | \rightarrow | _ | | _ | | 13/10 | |
| Glen Haven | 10/26 | | 17/30 | $\bot \bot$ | 19 | /20 | ļ | 1 | 26/19 | |
| Glenallan | 28/22 | | 26/16 | | 25 | /13 | <u> </u> | | 19/12 | |
| Greenwood | 25/15 | - 1000 | 15/15 | | 2: | /18 | | | 16/13 | |
| Highland | 27 /44 | | 25/30 | | 41 | ./22 | - | | 29/21 | |
| Hungerford Park | - | | 30/15 | | 2: | /10 | | | 27/24 | |
| Lakewood | - | | 10/11 | | 1: | 2/15 | | | 12/10 | |
| Meadow Hall | - | | 19/18 | | 17 | /17 | 1 | 20000000 | 21/15 | |
| Mill Creek Towne | 25/52 | | 22/38 | | | 7/17 | | | 12/12 | |
| Montrose | 27/17 | | 18/12 | | | - | <u> </u> | | <u> </u> | _ |
| 01ney | 24/13 | ٠. | 21/15 | | | _ | 1 | | 17/13 | |
| Poolesville | 20/22 | | 30/22 | | 1 | //12 | | | 20/11 | |
| Rock Creek Valley | 21/35 | | 28/17 | | 1 | /18 | | * | 12/16 | $\bot \bot \bot$ |
| Saddlebrook | 20/13 | | - | | | _ | 1_ | | 10/11 | |
| Seven Locks | 11/13 | | 14/17 | | | - | \perp | | | 1 10000 |
| South Lake | 38/45 | | 58/35 | | 3 | 5/31 | ļ.,,, | | 29/20 | |
| Summit Hall | 25/26 | | 25/22 | | 2 | 4/23 | 1 | | 34/18 | |
| Washington Grove | 28/24 | | 48/30 | | 2 | 5/16 | _ | | | |
| Watkins Mill | 38/24 | | 34/40 | | 3 | 0/29 | | | 20/21 | |
| Wood Acres | 13/19 | | 18/21 | | 1 | 3/17 | 1_ | | 15/12 | |
| Woodfield | _ _ | | - | | | - | <u> </u> | | <u> </u> | |



- School nonlongitudinal trend was at least 8 NCE points higher than the county trend.

- School nonlongitudinal trend was at least 8 NCE points lower than the county trend.

No. - Number Tested, Grade 3/Grade 5

RC - Reading Comprehension

TL - Total Language

TM - Total Math

C - Composite



TABLE 10 (Continued) Schools With Substantial Nonlongitudinal Trends in Each of the Last Four Years - Fourth Quarter

| | <u> </u> | 1978 | - 79 | | | 1 | 979 | - 80 | | 1 | . 980 | -8 1 | | | 19 | 981- | -82 | |
|--------------------|----------|----------|-----------------|--------|-------|-------|----------|-----------------|----------|--------|----------------|-----------------|----------|-------|-------|--------|--------|--------|
| | No. RC | TL | TM | С | No. | ***** | ******** | mmm | THITTE | Νο. RC | TL | TM | TB | No. | C I | rl I | רן איז | ГВ |
| Arcola | | | | | 12/13 | | | | | 12/13 | | | | 13/13 | | | | _ |
| Broad Acres | 14/10 | | | Manada | 16/12 | | | | | 12/14 | , | 1311111 | | 13/17 | | 110111 | щ | |
| Brookview | 10/40 | | | | 11/49 | | | | | 13/37 | | | | 14/40 | | | _ | |
| Burtonsville | | | mme | | - | | 20210 | | | | | | | _ | | | | |
| Cashell | 23/15 | | | | 16/15 | | | | | - | | <u></u> | | 11/24 | 4 | | щ | |
| Clarksburg | | | | | 12/34 | | mum | ļ | Till 111 | | | | | | | | · | _ |
| Fields Road | 26/31 | | | | 23/15 | | | | | 23/24 | | | | 30/13 | | | | |
| Four Corners | | | | | 18/15 | | | ******** | | 16/16 | | Ļ | | 10/12 | | | | |
| Fox Chapel | 36/21 | | | | 32/23 | | | | | 23/18 | | | | 21/28 | _ | | | |
| Gaithersburg | 40/35 | Turren | mmor | ,,,,,, | 57/27 | Ш | 111111 | | | 35/42 | 8889181 | | | 40/32 | | | | |
| Germantown . | 22/23 | | | | 21/32 | | | | | 19/16 | | | <u> </u> | 26/23 | | | _ | |
| Harmony Hills | 23/21 | | | | 35/22 | | | | | 29/24 | Ш | | | 19/21 | | | | |
| Highland View | 17/16 | | | | 19/19 | | | | | 11/37 | _ | | | | _ | | | |
| Lone Oak | 12/15 | | | | - | | | | | | | <u> </u> | <u> </u> | 20/10 | | | | |
| Lynnbrook | | | | | _ | | | | | | L | _ | | | 10101 | | | |
| Maryvale | 64/70 | | | | 28/18 | | _ | <u> </u> | L | 13/10 | | | | 14/10 | | | | |
| Monocacy | | \perp | | | | | _ | ļ | _ | | | | | | | | | |
| Oak View | 20/49 | | | ļ | 20/61 | _ | | | | 11/50 | | ' , | | 14/52 | | | 111111 | 111111 |
| Pine Crest | 12/38 | | | | 25/30 | | _ | | | 18/22 | L | | <u> </u> | 18/17 | | Щ | Щ | |
| Rock Creek Forest | | | | | _ | | | | | | | Ŀ | <u> </u> | 11/11 | | | | |
| Rocking Horse Road | 25/13 | | | | 25/10 | | | | L | 17/12 | | <u> </u> | _ | 25/14 | | | _ | |
| Rosemont | 13/14 | | | | | | | | | 13/20 | | | | 14/15 | | | | |
| Sherwood | 23/21 | | | | 25/25 | | | | | 20/21 | | | | 10/18 | | | | |
| Strathmore | 22/15 | <u> </u> | | | 18/23 | | | | | 20/23 | | | | 24/12 | | | _ | |
| Twinbrook | 18/13 | | | | 26/12 | | | | | 23/17 | | | | 24/19 | | | | |
| Weller Road | 24/35 | | | L | 25/27 | | | | | 16/29 | | L | | 25/13 | | | | |
| West Rockville | | | | | _ | | | <u> </u> | | 16/13 | | | | 12/14 | | | | |
| Wheaton Woods | 18/28 | | | | 23/30 | | | | | 14/19 | | | 蝶 | 12/12 | | | | |



- School nonlongitudinal trend was at least 8 NCE points higher than the county trend.

- School nonlongitudinal trend was at least 8 NCE points lower than the county trend.

No. - Number Tested, Grade 3/Grade 5

TL - Total Language

C - Composite

RC - Reading Comprehension

TM - Total Math

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APPENDIX A

DATA TABLES



Table A1

NUMBER (N) AND PERCENTAGE (%) OF STUDENTS SCORING AT OR ABOVE
THE NATIONAL NORM AVERAGE (50TH PERCENTILE) ON THE
CALIFORNIA ACHIEVEMENT TESTS, FALL 1981

| | | • | - • | GRAD | E | | | |
|----------------|--------|----------|------|------|-------|--------|---------|--------|
| | 3 | <u> </u> | 5 | % | N 8 | % | 11 N | - % |
| | N | | IN . | | IN . | /• | | |
| Total Battery | 3984 | 77 | 5160 | 79 | 5672 | 78 | 5508 | 75 |
| Total Reading | 3 92 5 | 75 | 5085 | 78 | 5778 | 79 | 5724 | 75 |
| Total Language | 4175 | 80 | 5383 | 82 | 5643 | 77 | 56 98 | 75 |
| Total Math | 4029 | 77 | 5144 | 79 | 57 96 | 80 | 5683 | 76 |





Table A2

CALIFORNIA ACHIEVEMENT TESTS RESULTS
FOR FALL 1980 AND 1981

(Scores reported are Normal Curve Equivalent (NCE) means, Scale (SS) means and the Percentile Rank (PR) of the Scale Score means)

| | | | Grade | 3 | | Grade | 5 |
|-----------------------|-------------|-------------|-------|----------|------|-------|---------|
| | 1 | NCE | SS | PR of | NCE | SS | PR of |
| Subject | <u>Year</u> | <u>Mean</u> | Mean | SS Mean | Mean | Mean | SS Mean |
| TOTAL BATTERY | 1981 | 65 | 405 | 79 | 67 | 493 | 80 |
| | 1980 | 64 | 403 | 77 | 67 | 4 92 | 79 |
| Phonic Analysis | 1981 | 57 | 403 | 64 | _ | _ | - |
| | 1980 | 56 | 401 | 63 | - | - | - |
| Structural Analysis | 1981 | 62 | 413 | 73 7- | - | - | - |
| | 1980 | 61 | 410 | 71 | _ | _ | _ |
| Reading Vocabulary | 1981 | 62 | 419 | 72 | 64 | 499 | 76 |
| | 1980 | 61 | 417 | 71 | 64 | 499 | 76 |
| Reading Comprehension | 1981 | 62 | 433 | 71 | 64 | 515 | 75 |
| | 1980 | 61 | 431 | 70 | 63 | 514 | 74 |
| TOTAL READING | 1981 | 62 | 411 | 72 | 64 | 502 | 77 |
| | 1980 | 61 | 409 | 71 | 64 | 502 | 77 |
| Spelling | 1 981 | 60 | 458 | 69 | 60 | 538 | 70 |
| 5P-11-10 | 1980 | 60 | 458 | 69 | 60 | 537 | 69 |
| Language Mechanics | 1981 | 67 | 488 | 80 | 67 | 554 | 79 |
| 5 5 | 1980 | 66 | 485 | 78 | 66 | 553 | .78 |
| Language Expression | 1981 | 62 | 466 | 73 | 66 | 544 | 80 |
| | 1980 | 62 | 464 | 72 | 66 | 542 | 80 |
| TOTAL LANGUAGE | 1981 | 66 | 470 | 81 | 68 | 546 | 82 |
| | 1980 | 65 | 467 | 79 | 68 | 544 | 81 |
| Math Computation | 1981 | 65 | 365 | 77 | 64 | 470 | 74 |
| Math Concepts | 1980 | 63 | 361 | 74 | 62 | 467 | 72 |
| and Applications | 1981 | 63 | 417 | 74 | 66 | 493 | 78 |
| •• | 1980 | 63 | 417 | 74 | 66 | 4 93 | 78 |
| TOTAL MATH | 1981 | 65 | 393 | 77 | 66 | 481 | 77 |
| | 1980 | 64 | 391 | 76 | 65 | 480 | 77 |
| Reference Skills | 1981 | _ | _ | - | 66 | 530 | 79 |
| | 1980 | | | | 65 | 527 | 78 |



Table A3

CALIFORNIA ACHIEVEMENT TESTS RESULTS
FOR FALL 1980 AND 1981

(Scores reported are Normal Curve Equivalent (NCE) means, Scale (SS) means and the Percentile Rank (PR) of the Scale Score means)

| | ĺ | | Grade | 8 | Grade 11 | | | | |
|-------------------------|-------|------|--------------|----------|----------|------|----------|--|--|
| | | NCE | SS | PR of | NCE | SS | PR of | | |
| Subject | Year | Mean | Mean | SS Mean | Mean | Mean | SS Mean | | |
| TOTAL BATTERY | 1981 | 66 | 599 | 79 | 64 | 674 | 75 | | |
| | 1 980 | 65 | 5 96 | 78 | 63 | 671 | 74 | | |
| Reading Vocabulary | 1981 | 64 | 591 | 76 | 62 | 667 | 71 | | |
| | 1980 | 64 | 588 | 75 | 61 | 666 | 71 | | |
| Reading Comprehension | 1981 | 65 | 604 | 76 | 62 | 664 | 72 | | |
| | 1980 | 64 | 601 | 75 | 62 | 662 | 71 | | |
| TOTAL READING | 1981 | 65 | 599 | 78 | 63 | 668 | 73 | | |
| | 1980 | 65 | 5 96 | 76 | 62 | 666 | 72 | | |
| Spelling | 1981 | 58 | 601 | 66 | 57 | 651 | 64 | | |
| | 1980 | 57 | 5 9 8 | 64 | 57 | 651 | 64 | | |
| Language Mechanics | 1981 | 65 | 620 | 78 | 62 | 660 | 72 | | |
| 3 | 1980 | 65 | 620 | 78 | 61 | 656 | 70 | | |
| Language Expression | 1981 | 63 | 599 | 75 | 62 | 663 | 72 | | |
| | 1980 | 63 | 598 | . 74 | 61 | 660 | 71 | | |
| TOTAL LANGUAGE | 1981 | 65 | 609 | 78 | 63 | 667 | 73 | | |
| | 1980 | 65 | 608 | 78 | 62 | 663 | 72 | | |
| Math Computation | 1981 | 64 | 605 | 75 75 | 61 | 661 | 70 69 | | |
| Math Concepts | 1980 | 61 | 5 96 | 72 | 60 | 658 | 09 | | |
| and Applications | 1981 | 67 | 600 | 80 | 64 | 673 | 74 | | |
| and apprioacions | 1980 | 67 | 599 | 79 | 63 | 671 | 73 | | |
| TOTAL MATH | 1981 | 66 | 601 | 79 | 63 | 670 | 73 70 | | |
| | 1980 | 65 | 5 96 | 76 | 62 | 667 | 72 | | |
| Reference Skills | 1981 | 65 | 5 9 8 | 76 | 62 | 665 | 72 | | |
| | 1980 | 64 | 5 95 | 75 | 62 | 665 | 72 | | |



TABLE A4

TEST RESULTS FOR STUDENTS TESTED IN MCPS TWICE
(LONGITUDINAL) AND ONCE (NONLONGITUDINAL) IN GRADES 3 AND 5*

| - | Students | <u>Tested in </u> | MCPS Twice | Students | Tested in | MCPS Once |
|--|--------------|-------------------|-------------------------------|--------------|-------------|-------------------------------|
| Subject | N | NCE Mean | Percentile Rank of Mean | N | NCE Mean | Percentile Rank of Mean |
| ITBS Vocabulary (Grade 3) | 5431 | 64 | 74 | 1214 | 57 | (2) |
| CAT Reading Vocabulary (Grade 5) | 5431 | 65 | 76 | 1097 | 57 59 | 63 66 |
| ITBS Reading Comprehenion (Grade 3) | 5438 | 62 | 71 | 1015 | | |
| CAT Reading Comprehension (Grade 5) | 5438 | 64 | 75 | 1215 1098 | 55 59 | 60 67 |
| ITBS Spoiling (Crode 2) | | | | | | |
| ITBS Spelling (Grade 3) CAT Spelling (Grade 5) | 5425 5425 | 67 61 | 79 | 1208 | 61 | 70 |
| one promise (orange 3) | | <u>or</u> | 70 | 1099 | 56 | 61 |
| ITBS Capitalization & Punctuation | | | | • | | |
| (Grade 3) | 5431 | 69 | 82 | 1209 | 63 | 73 |
| CAT Language Mechanics (Grade 5) | 5431 | 68 | 80 | 1100 | 61 | 70 |
| ITBS Language Usage (Grade 3) | 5434 | 61 | 70 | 1207 | 54 | |
| CAT Language Expression (Grade 5) | 5434 | 67 | 79 | 1100 | 56 62 | 62 71 |
| EMPC m to 1 T | | | | | | |
| ITBS Total Language (Grade 3) | 5428 | 70 70 | 83 | 1205 | 63 | 73 |
| CAT Total Language (Grade 5) | 5428 | 70 | 83 | 1100 | 62 | 72 |
| ITBS Total Math (Grade 3) | 5421 | 65 | 76 | 1207 | 58 | 64 |
| CAT Total Math (Grade 5) | 5421 | 67 | 79 | 1100 | 62 | 71 |
| TRE Company (Company) | 50.10 | | | | | |
| ITBS Composite (Grade 3) CAT Total Battery (Grade 5) | 5389 | 67 | 79 | 1185 | 60 | 68 |
| oni iotal Battery (Grade 5) | 5389 | 68 | 81 | <u> </u> | 62 | 71 |

*These results are merely descriptive because two different test batteries were used. No evaluative information can be derived because score differences can simply be the result of using different tests.



TABLE A5

TEST RESULTS FOR STUDENTS TESTED IN MCPS TWICE
(LONGITUDINAL) AND ONCE (NONLONGITUDINAL) IN GRADES 5 AND 8*

| · <u>1</u> | Students | Tested in l | MCPS Twice | Students | Tested in | MCPS Once |
|-------------------------------------|----------|-------------|-------------------------------|----------|-------------|-------------------------------|
| Subject | N | NCE Mean | Percentile Rank of Mean | N | NCE Mean | Percentile Rank of Mean |
| ITBS Vocabulary (Grade 5) | 5746 | 59 | 67 | 1560 | 55 | 59 |
| CAT Reading Vocabulary (Grade 8) | 5746 | 66 | | 1532 | 59 | 66 |
| ITBS Reading Comprehenion (Grade 5) | 5747 | 58 | 65 | 1560 | 53 | 56 |
| CAT Reading Comprehension (Grade 8) | 5747 | 66 | 78 | 1533 | 59 | 67 |
| ITBS Spelling (Grade 5) | 5743 | 60 | 69 | 1558 | 54 | 58 |
| CAT Spelling (Grade 8) | 5743 | 59 | 67 | 1537 | 53 | 53 |
| ITBS Capitalization & Punctuation | | | | | | |
| (Grade 5) | 5746 | 62 | 71 | 1556 | 56 | 61 |
| CAT Language Mechanics (Grade 8) | 5746 | 67 | 79 | 1536 | 59 | 66 |
| ITBS Language Usage (Grade 5) | 5744 | 61 | 70 | 1557 | 55 | 60 |
| CAT Language Expression (Crade 8) | 5744 | 65 | 76 | 1535 | 58 | 65 |
| ITBS Total Language (Grade 5) | 5743 | 63 | 73 | 1554 | 56 | 62 |
| CAT Total Language (Grade 8) | 5743 | 67 | 79 | 1533 | 59 | 67 |
| ITBS Total Math (Grade 5) | 5723 | 63 | 73 | 1559 | 58 | 65 |
| CAT Total Math (Grade 8) | 5723 | 68 | 80 | 1533 | 61 | 70 |
| ITBS Composite (Grade 5) | 5679 | 63 | 73 | 1541 | 56 | 62 |
| CAT Total Battery (Grade 8) | 5679 | 68 | 81 | 1509 | 60 | 68 |

*These results are merely descriptive because two different test batteries were used. No evaluative information can be derived because score differences can simply be the result of using different tests.



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TABLE A6

TEST RESULTS FOR STUDENTS 1. STED IN MCPS TWICE
(LONGITUDINAL) AND ONCE (NONLONGITUDINAL) IN GRADES 9 AND 11*

| <u></u> | Students | Tested in l | MCPS_Twice | Students | Tested in | MCPS Once |
|---|--------------|-------------|-------------------------------|--------------|-------------|-------------------------------|
| Subject | N_ | NCE Mean | Percentile Rank of Mean | N | NCE Mean | Percentile Rank of Mean |
| ITBS Vocabulary (Grade 9) | 6507 | 57 | 63 | 1469 | 49 | 48 |
| CAT Reading Vocabulary (Grade 11) | 6507 | 63 | 73 | 1118 | 55 | 60 |
| ITBS Reading Comprehenion (Grade 9) | 6511 | 54 | 57 | 1480 | 47 | |
| CAT Reading Comprehension (Grade 11) | 6511 | 63 | 73 | 1118 | 47 54 | 44 58 |
| ITBS Spelling (Grade 9) | 6480 | | | | - | |
| CAT Spelling (Grade 11) | 6480 | 54 58 | 57 65 | 1469 1107 | 47 52 | 44 53 |
| ITBS Capitalization & Punctuation (Grade 9) CAT Language Mechanics (Grade 11) | 6471 6471 | 56 63 | 62 73 | 1456 1107 | 48 54 | 47 57 |
| ITBS Language Usage (Grade 9) CAT Language Expression (Grade 11) | 6468 6468 | 55 63 | 60 73 | 1470 | 48 | 46 |
| | 0408 | 05 | 73 | 1096 | 55 | 60 |
| ITBS Total Language (Grade 9) | 6416 | 57 | 63 | 1439 | 48 | 46 |
| CAT Total Language (Grade 11) | 6416 | 64 | 75 | 1094 | <u>55</u> | 60 |
| ITBS Total Math (Grade 9) | 6354 | 56 | 62 | 1437 | 47 | 44 |
| CAT Total Math (Grade 11) | 6354 | 64 | 75 | 1058 | 57 | 63 |
| ITBS Composite (Grade 9) | 6057 | 58 | 64 | 1309 | 49 | 49 |
| CAT Total Battery (Grade 11) | 6057 | 65 | 76 | 1022 | 56 | 62 |

*These results are merely descriptive because two different test batteries were used. No evaluative information can be derived because score differences can simply be the result of using different tests.



Table A7

PERCENTAGE OF STUDENT SCORES THAT MAY HAVE BEEN INFLUENCED BY THE CEILING EFFECT* ON THE CALIFORNIA ACHIEVEMENT TESTS, FALL 1981

| | | Grad | ie | |
|--------------------------------|----|------|----|----|
| - | 3 | 5 | 8 | 11 |
| TOTAL BATTERY | ** | ** | ** | ** |
| Phonic Analysis | 32 | - | _ | _ |
| Structural Analysis | 50 | - | - | - |
| Reading Vocabulary | 57 | 26 | 16 | 24 |
| Reading Comprehension | 38 | 16 | ** | 19 |
| TOTAL READING | 14 | 12 | ** | 14 |
| Spelling | 26 | 18 | 11 | 12 |
| Language Mechanics | 36 | 17 | 23 | 23 |
| Language Expression | 39 | 25 | 13 | 18 |
| TOTAL LANGUAGE | 22 | ** | ** | ** |
| Math Computation Math Concepts | ** | ** | 19 | 23 |
| and Applications | 8 | ** | ** | 22 |
| TOTAL MATH | ** | ** | ** | 16 |
| Reference Skills | - | 48 | 30 | 44 |

*Students scoring within 1 Standard Error of Measurement of the maximum score. This is a reasonable range for possible score change due to careless error. These could be students who may have failed to achieve the maximum score because of careless errors.

**There is no ceiling effect for these subtests and totals becuase it is possible to score at the 99the percentile even if the student is 1 Standard Error of Measurement below the maximum score.



Table A8

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY RACIAL/ETHNIC GROUPS FOR FALL 1980 and 1981 GRADE 3

| | | Lan | Bla | | Hispa | | Whi | | Tot | |
|--------------------------|------|------|----------|----------|-------|----------|----------|----------|----------|----------|
| MOMAS DAMMENTS | NCE_ | PR | NCE | PR | NCE_ | PR | NCE | PR | NCE | PR |
| TOTAL BATTERY 1981 | 73 | 86 | 51 | 52 | 58 | 65 | 68 | 80 | 65 | 76 |
| 1980 | 71 | 84 | 49 | 48 | 57 | 63 | 67 | 79 | 64 | 75 |
| 1900 | ′¹ | 04 | 49 | 40 | | 05 | 0, | | 0. | |
| Phonic Analysis 1981 | 60 | 68 | 48 | 46 | 52 | 54 | 58 | 65 1 | 57 | 63 |
| 1980 | 60 | 68 | 46 | 42 | 52 | 54 | 58 | 65 | 56 | 61 |
| 1700 | " | 00 | 1 | | | - ' | |] | | |
| Structural Analysis | | | | | | ا د | | 75 | 62 | 72 |
| 1981 | 66 | 78 | 53 | 56 | 57 | 63 | 64 63 | 73 | 61 | 70 |
| 1980 | 65 | 76 | 50 | 50 | 57 | 63 | 63 | /3 | 01 | 70 |
| Reading Vocabulary | İ | | | | | | | 1 | | |
| 1981 | 62 | 72 | 50 | 50 | 54 | 58 | 64 | 75 | 62 | 72 |
| 1980 | 63 | 73 | 47 | 44 | 54 | 58 | 64 | 75 | 61 | 70 |
| 1300 | " | | '' | | , | | | | | |
| Reading Comprehension | լ | | | | | | | | | 70 |
| 1981 | 62 | 72 | 51 | 52 | 56 | 61 | 64 | 75 | 62 | 72 |
| 1980 | 63 | 73 | 49 | 48 | 54 | 58 | 63 | 73 | 61 | 70 |
| | 1 | | 1 | | | i | | | | |
| TOTAL READING 1981 | 65 | 76 | 50 | 50 | 56 | 61 | 65 | 76 | - 62 | 72 |
| 1980 | 65 | 76 | 47 | 44 | 55 | 59 | 64 | 75 | 61 | 70 |
| 1300 | " | ,, | " | 77 | 1 | | | | | |
| Spelling | 1 | | | | | | | | | |
| 1981 | 68 | · 80 | 53 | 56 | 53 | 56 | 61 | 70 | 60 | 68 |
| 1980 | 68 | 880 | 52 | 54 | 53 | 56 | 61 | 70 | 60 | 68 |
| | | | 1 | | | | | | | |
| Language Mechanics | | | | | 62 | 72 | 69 | 82 | 67 | 79 |
| 1981 | 73 | 86 | 56 53 | 61 56 | 61 | 72 70 | 68 | 82 | 66 | 78 |
| 1980 | 72 | 85 | 33 | 90 | 91 | 70 | 00 | 02 | " | , 0 |
| Language Expression | İ | | | | İ | | ľ | | | |
| 1981 | 62 | 72 | 52 | 54 | 56 | 61 | 65 | 76 | 62 | 72 |
| 1980 | 64 | 75 | 50 | 50 | 56 | 61 | 64 | 75 | 62 | 72 |
| | | | - | | | | | | 1 | |
| TOTAL LANGUAGE | 1 | | 1 | | | | | 00 | | 78 |
| 1981 | 69 | 82 | 54 | 58 | 60 | 68 | 69 | 82 80 | 66 65 | 76 |
| 1980 | 70 | 83 | 52 | 54 | 59 | 67 | 68 | 80 | 65 | 70 |
| Make Committee to be a | | | | | | | 1 | | | |
| Math Computation 1981 | 77 | 90 | 51 | 52 | 59 | 67 | 66 | 78 | 65 | 76 |
| 1980 | 73 | 86 | 48 | 46 | 58 | 65 | 64 | 75 | 63 | 73 |
| 1300 | ' | | ' | | | | | | ĺ | |
| Math Concepts and | i | | Į | | 4 | | l | | 1 | |
| Applications | | | 1 | | | | ٠. | | | 70 |
| 1981 | 69 | 82 | 50 | 50 | 56 | 61. | 65 | 76 | 63 | 73 73 |
| 1980 | 68 | 80 | 49 | 48 | 55 | . 59 | 65 | 76 | 63 | /3 |
| moment Marris | l | | | | 1 | | | | } | |
| TOTAL MATH 1981 | 75 | 88 | 51 | 52 | 58 | 65 | 67 | 79 | 65 | 76 |
| 1981 | 72 | 85 | 49 | 48 | 57 | 63 | 66 | 78 | 64 | 75 |
| 1,300 | ' | 0.0 | "" | 70 | " | | " | | - | |
| Reference Skills | | | | | 1 | | | | | |
| 1981 | 1 - | | - | | - | | - | | - | |
| 1980 | - | | - | | - | | - | | - | |
| | | | | | | | | | | |
| NUMBER TESTED | 1 | | | | 1 | | 1 | | | |
| 1981 | 368 | | 688 | | 181 | | 3955 | | 5197 | |
| 1980 | 320 | | 740 | | 165 | | 4388 | | 5616 | |
| - | 1 | | 1 | | 1 | | 1 | | 1 | |



Table A9

CALIFORNIA ACHLEVEMENT TESTS RESULTS BY RACIAL/ETHNIC GROUPS FOR FALL 1980 and 1981 GRADE 5

| | mea | iis and | | rercent | . Lie Na | | | `* | | |
|-----------------------|-----|------------|------|-----------|--------------|------------|--------------|-----------|--------------|-----------|
| | As: | ian PR | B1. | ack PR | Hispa NCE | anic PR | Wh. | ite PR | To: | tal PR |
| TOTAL BATTERY | | * 1. | 1102 | _ * * * * | 1,02 | | NOL | | 1 102 | |
| 1981 | 74 | 87 | 53 | 56 | 58 | 65 | 69 | 82 | 67 | 79 |
| 1 980 | 73 | 86 | 51 | 52 | 61 | 70 | 69 | 82 | 67 | 79 |
| Phonic Analysis | | | | | | | | | | |
| 1 981 | - | - | - | - | - | - | - | - | - | - |
| 1980 | - | - | - | - | - | - | | - | - | - |
| Structural Analysis | | | | | | | | | | |
| 1981 | - | - | - | - | _ | - | - | | - | - |
| 1980 | - | - , | - | - | _ | - | - | - | - | - |
| Reading Vocabulary | | | | | | | | | | |
| 1981 | 64 | 75 | 53 | 56 | 55 | 59 | 66 | 78 | 64 | 75 |
| 1980 | 66 | 78 | 51 | 52 | 58 | 65 | 66 | 78 | 64 | 75 |
| Reading Comprehension | | | | | | | | | | |
| 1 981 | 66 | 78 | 52 | 54 | 56 | 61 | 66 | 78 | 64 | 75 |
| 1980 | 64 | 75 | 50 | 50 | 59 | 67 | 65 | 76 | 63 | 73 |
| TOTAL READING | | | | | | | | | | |
| 1 981 | 66 | 78 | 52 | 54 | 56 | 61 | 67 | 79 | 64 | 75 |
| 1 980 | 65 | 76 | 51 | 52 | 58 | 65 | 66 | 78 | 64. | 75 |
| Spelling | | | | | | | 1 | | | |
| 1981 | 67 | 79 | 53 | 56 | 53 | 56 | 61 | 70 | 60 | 68 |
| 1980 | 67 | 79 | 51 | 52 | 56 | 61 | 61 | 70 | 60 | 68 |
| Language Mechanics | | | | | | | | | | |
| 1981 | 73 | 86 | 54 | 58 | 60 | 68 | 68 | 80 | 67 | 79 |
| 1980 | 73 | 86 | 52 | 54 | 62 | 72 | 68 | 80 | 66 | 78 |
| Language Expression | | | | | | | | | | |
| 1981 | 69 | 82 | 54 | 58 | 57 | 63 | 69 | 82 | 66 | 78 |
| 1 980 | 67 | 79 | 51 | 52 | 60 | 68 | 68 | 80 | 66 | 78 |
| TOTAL LANGUAGE | | | | | | | | | | |
| 1981 | 73 | 86 | 55 | 59 | 59 | 67 | 71 | 84 | 68 | 80 |
| 1980 | 71 | 84 | 52 | 54 | 62 | 72 | 70 | 83 | 68 | 80 |
| Math Computation | | | | | | | | | | |
| 1981 | 75 | 88 | 53 | 56 | 58 | 65 | 65 | 76 | 64 | 75 |
| 1 980 | 74 | 87 | 50 | 50 | 60 | 68 | 64 | 75 | 62 | 72 |
| Math Concepts and | | | | | | | | | | |
| Applications 1981 | 73 | 86 | 51 | 52 | 58 | | 68 | 80 | 66 | 78 |
| 1980 | 72 | 85 | 50 | 50 | 62 | 65 72 | 68 | 80 | 66 | 78 78 |
| momat seems | | | , | | | | | | | |
| TOTAL MATH 1981 | 76 | 89 | 52 | 54 | 59 | 67 | 68 | 80 | 66 | 78 |
| 1980 | 75 | 88 | 50 | 50 | 62 | 72 | 67 | 79 | 65 | 76 |
| | . | - | | | "- | | " | ., | | . 0 |
| Reference Skills | | | | 50 | | | | 00 | | - |
| 1981 | 72 | 85 84 | 55 | 59 | 60 | 68 | 68 | 80 | 66 | 78 |
| 1980 | 71 | 84 | 53 | 56 | 62 | 72 | 67 | 79 | 65 | 76 |
| NIMDED TECTES | | | | | | | | | | |
| NUMBER TESTED 1981 | 459 | | 820 | | 236 | | 4000 | | 6524 | |
| 1980 | 358 | | 856 | | 236 | | 4999 5775 | | 6524 7214 | |
| | | | | | | | | | 1 | |



Table A10

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY RACIAL/ETHNIC GROUPS FOR FALL 1980 AND 1981 GRADE 8

(Scores reported are Normal Curve Equivalent (NCE) means and their Percentile Ranks (PR).)

| | | | + | | TILE NA | | | | | |
|---|------------|-----------|------------|-----------|--------------|------------|--------------|-------------|--------------|-----------|
| | As NCE | ian PR | B1: | ack PR | Hispa NCE | anic PR | Wh: | lte PR | Tot NCE | ral PR |
| TOTAL BATTERY 1981 1980 | 71 73 | 84 86 | 50 50 | 50 50 | 59 59 | 67 67 | 69 67 | 82 79 | 66 65 | 78 76 |
| Phonic Analysis | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1980 | - | - | _ | - | - | - | _ | - | - | - |
| Structural Analysis 1981 1980 | - | <u>-</u> | - | - | _ | <u>-</u> | _ _ | - | - - | <u>-</u> |
| Reading Vocabulary 1981 1980 | 64 65 | 75 76 | 49 49 | 48 48 | 57 57 | 63 63 | 67 66 | 79 78 | 64 64 | 75 75 |
| Reading Comprehension 1981 1980 | 66 67 | 78 79 | 51 51 | 52 52 | 57 59 | 63 67 | 67 66 | 79 78 | 65 64 | 76 75 |
| TOTAL READING 1981 1980 | 66 67 | 78 79 | 50 50 | 50 50 | 58 59 | 65 67 | 68 67 | 80 79 | 65 65 | 76 76 |
| Spelling 1981 1980 | 65 65 | 76 76 | 51 50 | 52 50 | 52 52 | 54 54 | 59 58 | 67 65 | 58 57 | 65 63 |
| Language Mechanics 1981 1980 | 68 72 | 80 85 | 52 51 | 54 52 | 59 60 | 67 68 | 68 67 | 80 79 | 65 65 | 76 76 |
| Language Expression 1981 1980 | 64 66 | 75 78 | 50 50 | 50 50 | 58 58 | 65 65 | 66 65 | 78 76 | 63 63 | 73 73 |
| Total Language 1981 1980 | 67 70 | 7 9 83 | 51 50 | 52 50 | 59 59 | 67 67 | 68 67 | 80 79 | 65 65 | 76 76 |
| Math Computation 1981 1980 | 76 75 | 89 88 | 51 50 | 52 50 | 59 57 | 67 63 | 65 63 | 76 73 | 64 61 | 75 70 |
| Math Concepts and Applications 1981 | 74 | 87 | 52 | 54 | 60 | 68 | 69 | 82 80 | 67 | 79 79 |
| 1980 TOTAL MATH 1981 | 75 | 88 89 | 52 | 54 52 | 60 | 68 68 | 68 68 | 80 | 66 | 78 |
| 1980 Reference Skills | 76 | 89 | 51 | 52 | 59 | 67 | 66 | 78 | 65 | 76 |
| 1981 1980 | 69 70 | 82 83 | 53 52 | 56 54 | 59 59 | 67 67 | 66 65 | 78 76 | 65 64 | 76 75 |
| NUMBER TESTED 1981 1980 | 387 359 | | 872 828 | | 243 234 | | 5710 5878 | | 7234 7314 | |



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Table All

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY RACIAL/ETHNIC GROUPS FOR FALL 1980 AND 1981 GRADE 11

| | | | | | T | | | | | |
|-----------------------|------------|-----------|------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
| | As: | lan PR | B1 | ack PR | Hispa NCE | nic PR | Wh: | lte PR | Tot NCE | tal PR |
| TOTAL BATTERY | - | | | | † -: | | | | .,,,_ | |
| 1 981 | 66 | 78 | 47 | 44 | 56 | 61 | 66 | 78 | 64 | 75 |
| 1 980 | 66 | 78 | 44 | 39 |) 55 1 | 59 | 65 | 76 | 63 | 73 |
| Phonic Analysis | | | | | | | | | | |
| 1981 | - | - | - | - | - | - | - | - | - | - |
| 1980 | - | - | - | - | - | - | - | - | - | - |
| Structural Analysis | Ì | | | | | | | | | |
| 1981 | - | - | - | - | - | _ | - | _ | - | _ |
| 1980 | - | - | - | - | - | - | - | - | - | - |
| Reading Vocabulary | | | | | | | | | | |
| 1981 | 57 | 63 | 47 | 44 | 55 | 59 | 64 | 75 | 62 | 72 |
| 1980 | 58 | 65 | 44 | 39 | 55 | 59 | 64 | 75 | 61 | 70 |
| 1 | | 0.5 | | - | 55 | 33 | • | | "- | |
| Reading Comprehension | 1 | _ | | | | | | | | |
| 1 981 | 59 | 67 | 47 | 44 | 53 | 56 | 64 | 75 | 62 | 72 |
| 1 980 | 59 | 67 | 44 | 39 | 53 | 56 | 64 | 75 | 62 | 72 |
| TOTAL READING | | | | | | | 1 | | | |
| 1981 | 58 | 65 | 47 | 44 | 55 | 59 | 65 | 76 | 63 | 73 |
| 1980 | 59 | 67 | 43 | 37 | 54 | 58 | 65 | 76 | 62 | 72 |
| Spelling | | | | | | | | | | |
| 1981 | 61 | 70 | 48 | 46 | 53 | 56 | 58 | 65 | 57 | 63 |
| 1980 | 63 | 73 | 47 | 44 | 52 | 54 | 59 | 67 | 57 | 63 |
| | | | | | | | | | | |
| Language Mechanics | 64 | 75 | 47 | 44 | 56 | 61 | 64 | 75 | 62 | 72 |
| 1981 1980 | 64 | 75 75 | 47 | 44 | 53 | 56 | 63 | 73 | 61 | 70 |
| 2,00 | " | | ' | 7- | | 50 | 55 | | | |
| Language Expression | | | | | ļ <u>.</u> . | | | | | |
| 1 981 | 60 | 68 | 47 | 44 | 54 | 58 | 64 | 75 | 62 | 72 |
| 1980 | 59 | 67 | 45 | 41 | 52 | 54 | 64 | 75 | 61 | 70 |
| TOTAL LANGUAGE | | | | | | | | | | |
| 1981 | 63 | 73 | 47 | 44 | 56 | 61 | 65 | 76 | 63 | 73 |
| 1980 | 62 | 72 | 44 | 3,9 | 53 | 56 | 64 | 75 | 62 | 72 |
| Math Computation | | | | | | | | | ļ | |
| 1981 | 71 | 84 | 47 | 44 | 55 | 59 | 62 | 72 | 61 | 70 |
| 1980 | 70 | 83 | 45 | 41 | 55 | 59 | 62 | 72 | 60 | 68 |
| Math Concepts and | | | | | | | | | | |
| Applications | | | | | | | | | | |
| 1981 | 71 | 84 | 48 | 46 | 58 | 65 | 65 | 76 | 64 | 75 |
| 1980 | 71 | 84 | 45 | 41 | 58 | 65 | 65 | 76 | 63 | 73 |
| TOTAL MATH | | | | | | | } | | | |
| 1981 | 72 | 85 | 47 | 44 | 57 | 63 | 65 | 76 | 63 | 73 |
| 1980 | 72 | 85 | 45 | 41 | 56 | 61 | 64 | 75 | 62 | 72 |
| | | | | | | | | | 1 | |
| Reference Skills | | 70 | ١,, | ,, | | E0. | | 70 | (2) | 72 |
| 1981 | 61 | 70 | 49 | 48 46 | 55 | 59 58 | 64 | 75 75 | 62 62 | 72 72 |
| 1980 | 63 | 73 | 48 | 46 | 54 | 26 | 64 | 15 | 02 | 12 |
| | | | | | | | | | | |
| NUMBER TESTED | 250 | | 750 | | 1 | | E 001 | | 7250 | |
| 1981 1980 | 353 338 | | 758 784 | | 248 263 | | 5981 6552 | | 7350 7951 | |
| 1700 | ٥٠٠ | | /04 | | 203 | | 0,5,2 | | ,,,,, | |
| | <u> </u> | | <u> </u> | | | | | | | |

TABLE A12

CALIFORNIA ACHIEVEMENT TESTS
RESULTS FOR STUDENTS TESTED IN
MCPS TWICE - ASIAN

| Subject | Spring Grad (N=3 NCE | | Fall Grad (N=3 NCE | e 5 | Spring Grad (N=2 | le 5 38) | Fall Grad (N=2 | e 8 38) | Spring Grad (N=2 | e 9 42) | (N=2 | ie 11 242) |
|---|-------------------------------|----------|-----------------------------|-----|------------------------|-------------|----------------------|------------|------------------------|------------|------|---------------|
| | NOB | <u> </u> | NOE | | NCE | <u>PR</u> | NCE | PR | NCE | PR | NCE | PR |
| ITBS Vocabulary CAT Reading Vocabulary | 63 | 73 | 68 | 80 | 59 | 67 | 72 | 85 | 56 | 61 | 64 | 75 |
| ITBS Reading Comprehension | 62 | 72 | 69 | 82 | 60 | 68 | 72 | 85 | 55 | 59 | 67 | 79 |
| ITBS Spelling CAT Spelling | 74 | 87 | 70 | 83 | 70 | 83 | 71 | 84 | 62 | 72 | 67 | 79 |
| ITBS Capitalization and Punctuation CAT Language Mechanics | 76 | 89 | 75 | 88 | 68 | 80 | 74 | 87 | 63 | 73 | 71 | 84 |
| ITBS Language Usage CAT Language Expression | 62 | 72 | 73 | 86 | 59 | 67 | 70 | 83 | 56 | 61 | 67 | 79 |
| ITBS TOTAL LANGUAGE CAT TOTAL LANGUAGE | 76 | 89 | 76 | 89 | 69 | 82 | 73 | 86 | 62 | 72 | 70 | 83 |
| ITBS TOTAL MATH CAT TOTAL MATH | 71 | 84 | 77 | 90 | 71 | 84 | 79 | 92 | 65 | 76 | 76 | 89 |
| ITBS COMPOSITE CAT TOTAL BATTERY | 71 | 84 | 77 | 90 | 67 | 79 | 77 | 90 | 62 | 72 | 73 | 86 |

*This is the number taking all subtests. The number might be slightly larger for each subtest.



TABLE A13

CALIFORNIA ACHIEVEMENT TESTS
RESULTS FOR STUDENTS TESTED IN

MCPS TWICE - BLACK

| | Spring Grad | | Fall Grad (N=5 | e 5 | Spring Grad (N≈5 | le 5 | Fall Grad (N=5 | e 8 | Spring 1980 Grade 9 (N⇒545) | | Fall Grad (N=5 | le 11 |
|--|----------------|----|----------------------|-----|------------------------|------|----------------------|-----|-----------------------------------|----|----------------------|-------|
| <u>Subject</u> | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR |
| ITBS Vocabulary CAT Reading Vocabulary | 53 | 56 | 54 | 58 | 44 | 39 | 51 | 52 | 41 | 33 | 48 | 46 |
| TBS Reading Comprehension CAT Reading Comprehension | 50 | 50 | 52 | 54 | 42 | 35 | 52 | 54 | 38 | 28 | 48 | 46 |
| ITES Spelling CAT Spelling | 62 | 72 | 54 | 58 | 50 | 50 | 52 | 54 | 43 | 37 | 48 | 46 |
| ITBS Capitalization and Punctuation CAT Language Mechanics | 59 | 67 | 56 | 61 | 49 | 48 | 54 | 58 | 43 | 37 | 48 | 46 |
| ITBS Language Usage CAT Language Expression | 51 | 52 | 55 | 59 | 46 | 42 | 51 | 52 | 42 | 35 | 49 | 48 |
| ITBS TOTAL LANGUAGE CAT TOTAL LANGUAGE | 59 | 67 | 56 | 61 | 49 | 48 | 52 | 54 | 42 | 35 | 48 | 46 |
| ITBS TOTAL MATH CAT TOTAL MATH | 50 | 50 | 53 | 56 | 45 | 41 | 53 | 56 | 39 | 30 | 49 | 48 |
| ITBS COMPOSITE CAT TOTAL BATTERY | 54 | 58 | 54 | 58 | 45 | 41 | 52 | 54 | 40 | 32 | 49 | 48 |

^{*}This is the number taking all subtests. The number might be slightly larger for each subtest.



TABLE A14

CALIFORNIA ACHIEVEMENT TESTS
RESULTS FOR STUDENTS TESTED IN
MCPS TWICE - HISPANIC

| | Spring Grad (N=1 | | Fall Grad (N=1 | le 5 | Spring Grad (N=1 | | Fall Grad (N=1 | le 8 | Spring Grad (N=1 | le 9 | | 1981 ie 11 59) |
|--|------------------------|----|----------------------|------|------------------------|----|----------------------|------|------------------------|------|-----|----------------------|
| Subject | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR |
| ITBS Vocabulary CAT Reading Vocabulary | 54 | 58 | 59 | 67 | 54 | 58 | 62 | 72 | 50 | 50 | 58 | 65 |
| ITBS Reading Comprehension CAT Reading Comprehension | 53 | 56 | 59 | 67 | 53 | 56 | 63 | 73 | 48 | 46 | 59 | 67 |
| ITBS Spelling CAT Spelling | 62 | 72 | 56 | 61 | 56 | 61 | 55 | 59 | 51 | 52 | 58 | 65 |
| ITBS Capitalization and Punctuation CAT Language Mechanics | 64 | 75 | 64 | 75 | 58 | 65 | 64 | 75 | 53 | 56 | 61 | 70 |
| ITBS Language Usage CAT Language Expression | 52 | 54 | 60 | 68 | 54 | 58 | 63 | 73 | 52 | 54 | 59 | 67 |
| ITBS TOTAL LANGUAGE CAT TOTAL LANGUAGE | 63 | 73 | 63 | 73 | 58 | 65 | 64 | 75 | 53 | 56 | 61 | 70 |
| ITBS TOTAL MATH CAT TOTAL MATH | 57 | 63 | 61 | 70 | 58 | 65 | 64 | 75 | 50 | 50 | 61 | 70 |
| ITBS COMPOSITE CAT TOTAL BATTERY | 59 | 67 | 61 | 70 | 57 | 63 | 64 | 75 | 51 | 52 | 61 | 70 |

^{*}This is the number taking all subtests. The number might be slightly larger for each subtest.



TABLE A15

CALIFORNIA ACHIEVEMENT TESTS
RESULTS FOR STUDENTS TESTED IN
MCPS TWICE - WHITE

| | Spring Grad (N=4 | | Fall Grad (N=4 | le 5 | Spring Grad (N=4 | | Fall Grad (N=4 | e 8 | Spring Grad (N-5 | | | 1981 le 11 102) |
|--|------------------------|----|----------------------|------|------------------------|----|----------------------|------------|------------------------|-----------|-----|-----------------------|
| Subject | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | <u>PR</u> | NCE | PR |
| ITBS Vocabulary CAT Reading Vocabulary | 65 | 76 | 67 | 79 | 62 | 72 | 68 | 80 | 59 | 67 | 64 | 75 |
| ITBS Reading Comprehension CAT Reading Comprehension | 64 | 75 | 66 | 78 | 60 | 68 | 68 | 80 | 56 | 61 | 65 | 76 |
| ITBS Spelling CAT Spelling | 68 | 80 | 62 | 72 | 61 | 70 | 60 | 68 | 55 | 59 | 59 | 67 |
| ITBS Capitalization and Punctuation CAT Language Mechanics | 70 | 83 | 69 | 82 | 63 | 73 | 69 | 82 | 58 | 65 | 64 | 75 |
| ITBS Language Usage CAT Language Expression | 63 | 73 | 69 | 82 | 63 | 73 | 66 | 78 | 57 | 63 | 65 | 76 |
| ITBS TOTAL LANGUAGE CAT TOTAL LANGUAGE | 71 | 84 | 71 | 84 | 65 | 76 | 69 | 82 | 58 | 65 | 66 | 78 |
| ITBS TOTAL MATH CAT TOTAL MATH | 67 | 79 | 68 | 80 | 65 | 76 | 69 | 82 | 58 | 65 | 65 | 76 |
| ITBS COMPOSITE CAT TOTAL BATTERY | 69 | 82 | 70 | 83 | 65 | 76 | 70 | 83 | 60 | 68 | 67 | 79 |

*This is the number taking all subtests. The number might be slightly larger for each subtest.



TABLE A16

CALIFORNIA ACHIEVEMENT TESTS RESULTS FOR STUDENTS TESTED IN MCPS ONCE - ASIAN

| Subject | Spring Grad (N=5 NCE | le 3 | Fall Grad (N=1 NCE | le 5 | Spring Grad (N=5 NCE | le 5 i0) | Fall Grad (N=1 | le 8 47) | Grad (Næ/ | 2) | (N=1 | le 11 .06) |
|---|-------------------------------|------|-----------------------------|----------|-------------------------------|-------------|----------------------|-------------|--------------|----|------|---------------|
| | 102 | | <u> </u> | <u> </u> | NOE | PR | NCE | PR | NCE_ | PR | NCE | PR |
| ITBS Vocabulary CAT Reading Vocabulary | 56 | 61 | 54 | 58 | 51 | 52 | 53 | 56 | 46 | 42 | 41 | 33 |
| ITBS Reading Comprehension CAT Reading Comprehension | 54 | 58 | 60 | 68 | 53 | 56 | 54 | 58 | 47 | 44 | 40 | 32 |
| ITBS Spelling CAT Spelling | 69 | 82 | 58 | 65 | 63 | 73 | 56 | 61 | 56 | 61 | 47 | 44 |
| ITBS Capitalization and Punctuation CAT Language Mechanics | 71 | 84 | 65 | 76 | 61 | 70 | 59 | 67 | 55 | 59 | 49 | 48 |
| ITBS Language Usage CAT Language Expression | 57 | 63 | 60 | 68 | 55 | 59 | 54 | 58 | 51 | 52 | 44 | 39 |
| ITBS TOTAL LANGUAGE CAT TOTAL LANGUAGE | 69 | 82 | 64 | 75 | 62 | 72 | 57 | 63 | 55 | 59 | 46 | 42 |
| ITBS TOTAL MATH CAT TOTAL MATH | 66 | 78 | 74 | 87 | 68 | 80 | 72 | 85 | 58 | 65 | 63 | 73 |
| ITBS COMPOSITE CAT TOTAL BATTERY | 65 | 76 | 66 | 78 | 60 | 68 | 62 | 72 | 53 | 56 | 51 | 52 |

*This is the number taking all subtests. The number might be slightly larger for each subtest.



TABLE A17

CALIFORNIA ACHIEVEMENT TESTS

RESULTS FOR STUDENTS TESTED IN
MCPS ONCE - BLACK

| | Spring Grad (N=1 | | Fall Grad (N=2 | e 5 | Spring Grad (N=2 | e 5 | Fall Grad (N=2 | e 8 | Spring Grad (N-1 | e 9 | (N=1 | le 11 77) |
|--|------------------------|----|----------------------|-----|------------------------|-----|----------------------|-----|------------------------|-----|------|--------------|
| Subject | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR |
| ITBS Vocabulary CAT Reading Vocabulary | 45 | 41 | 51 | 52 | 41 | 33 | 46 | 42 | 34 | 22 | 44 | 39 |
| ITBS Reading Comprehension CAT Reading Comprehension | 42 | 35 | 50 | 50 | 40 | 32 | 48 | 46 | 32 | 20 | 44 | 39 |
| ITBS Spelling CAT Spelling | 53 | 56 | 50 | 50 | 47 | 44 | 48 | 46 | 37 | 27 | 46 | 42 |
| ITBS Capitalization and Punctuation CAT Language Mechanics | 50 | 50 | 51 | 52 | 45 | 41 | 47 | 44 | 36 | 25 | 44 | 39 |
| ITBS Language Usage CAT Language Expression | 45 | 41 | 52 | 54 | . 43 | 37 | 47 | 44 | 34 | 22 | 44 | 39 |
| ITBS TOTAL LANGUAGE CAT TOTAL LANGUAGE | 50 | 50 | 51 | 52 | 44 | 39 | 47 | 44 | 34 | 22 | 44 | 39 |
| ITBS TOTAL MATH CAT TOTAL MATH | 42 | 35 | 50 | 50 | 41 | 33 | 49 | 48 | 31 | 18 | 44 | 39 |
| ITBS COMPOSITE CAT TOTAL BATTERY | 44 | 39 | 50 | 50 | 40 | 32 | 47 | 44 | 32 | 20 | 43 | 37 |

^{*}This is the number taking all subtests. The number might be slightly larger for each subtest.



TABLE A18

CALIFORNIA ACHIEVEMENT TESTS RESULTS FOR STUDENTS TESTED IN MCPS ONCE - HISPANIC

| | Spring Grad (N=4 | le 3 7)* | Fall Grad (N=7 | e 5 | Spring Grad (N=4 | e 5 | Fall Grad (N=1 | le 8 | Spring Grad (N-5 | le 9 | Fall Grad (N=7 | ie 11 |
|--|------------------------|-------------|----------------------|-----|------------------------|-----|----------------------|------|------------------------|------|----------------------|------------|
| Subject | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR |
| ITBS Vocabulary CAT Reading Vocabulary | 44 | 39 | 46 | 42 | 52 | 54 | 52 | 54 | 44 | 39 | 51 | 52 |
| ITBS Reading Comprehension CAT Reading Comprehension | 44 | 39 | 48 | 46 | 50 | 50 | 51 | 52 | 44 | 39 | 43 | 37 |
| ITBS Spelling CAT Spelling | 55 | 59 | 46 | 42 | 53 | 56 | 47 | 44 | 47 | 44 | 45 | 41 |
| ITBS Capitalization and Punctuation CAT Language Mechanics | 60 | 6 8 | 53 | 56 | 55 | 59 | 52 | 54 | 50 | 50 | 47 | 44 |
| ITBS Language Usage CAT Language Expression | 49 | 48 | 52 | 54 | 51 | 52 | 52 | 54 | 47 | 44 | 45 | 41 |
| ITBS TOTAL LANGUAGE CAT TOTAL LANGUAGE | 57 | 63 | 53 | 56 | 54 | 58 | 52 | 54 | 49 | 48 | 46 | 42 |
| ITBS TOTAL MATH CAT TOTAL MATH | 50 | 50 | 55 | 59 | 55 | 59 | 55 | 59 | 45 | 41 | 50 | 5 0 |
| ITBS COMPOSITE CAT TOTAL BATTERY | 52 | 54 | 52 | 54 | 54 | 58 | 53 | 56 | 47 | 44 | 48 | 46 |

*This is the number taking all subtests. The number might be slightly larger for each subtest.



TABLE A19

CALIFORNIA ACHIEVEMENT TESTS RESULTS FOR STUDENTS TESTED IN MCPS ONCE - WHITE

| | Spring Grad | | Fall Grad (N=6 | e 5 | Spring Grad (N=1 | | Fall Grad (N=9 | le 8 | Spring Grad (N-1 | | Fall Grad (N=6 | le 11 |
|--|----------------|----|----------------------|-----|------------------------|----|----------------------|------|------------------------|----|----------------------|-------|
| Subject | NCE | PR | NCE | PR | <u>NCE</u> | PR | NCE | PR | NCE | PR | NCE | PR |
| ITBS Vocabulary CAT Reading Vocabulary | 60 | 68 | 64 | 75 | 57 | 63 | 64 | 75 | 52 | 54 | 61 | 70 |
| ITBS Reading Comprehension CAT Reading Comprehension | 58 | 65 | 63 | 73 | 56 | 61 | 64 | 75 | 49 | 48 | 61 | 70 |
| ITBS Spelling CAT Spelling | 62 | 72 | 58 | 65 | 55 | 59 | 55 | 59 | 48 | 46 | 55 | 59 |
| ITBS Capitalization and Punctuation CAT Language Mechanics | 65 | 76 | 64 | 75 | 57 | 63 | 62 | 72 | 50 | 50 | 58 | 65 |
| ITBS Language Usage CAT Language Expression | 58 | 65 | 66 | 78 | 58 | 65 | 62 | 72 | 50 | 50 | 61 | 70 |
| ITBS TOTAL LANGUAGE CAT TOTAL LANGUAGE | 65 | 76 | 67 | 79 | 59 | 67 | 63 | 73 | 50 | 50 | 61 | 70 |
| ITBS TOTAL MATH CAT TOTAL MATH | 61 | 70 | 65 | 76 | 58 | 65 | 63 | 73 | 49 | 48 | 60 | 68 |
| ITBS COMPOSITE CAT TOTAL BATTERY | 63 | 73 | 66 | 78 | 59 | 67 | 64 | 75 | 52 | 54 | 61 | 70 |

*This is the number taking all subtests. The number might be slightly larger for each subtest.





TABLE A20

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY RACE FOR 1981 MCPS TESTING AND THE NATIONAL NORM GROUP

(Scores reported are the normal curve equivalent (NCE) scores for the mean raw scores.)

| | | BLACK | | | HISPANI | С | | OTHER | |
|----------------|------|-------|------|------|---------|------|------|-------|------|
| | MCPS | NAT'1 | DIFF | MCPS | NAT'1 | DIFF | MCPS | NAT'1 | DIFF |
| GRADE 3 | | | | | | | | | |
| TOTAL BATTERY | 49 | 29 | 20 | 55 | 35 | 20 | 64 | 48 | 16 |
| TOTAL READING | 48 | 29 | 19 | 52 | 34 | 18 | 59 | 48 | 11 |
| TOTAL LANGUAGE | 51 | 32 | 19 | 56 | 39 | 17 | 64 | 50 | 14 |
| TOTAL MATH | 52 | 32 | 20 | 58 | 39 | 19 | 66 | 50 | 16 |
| CD 4 D 7 | | | | | | | | | |
| GRADE 5 | | ~. | | | | | | | |
| TOTAL BATTERY | 51 | 34 | 17 | 55 | 37 | 18 | 66 | 50 | 16 |
| TOTAL READING | 51 | 34 | 17 | 53 | 36 | 17 | 62 | 49 | 13 |
| TOTAL LANGUAGE | 51 | 35 | 16 | 56 | 38 | 18 | 66 | 53 | 13 |
| TOTAL MATH | 52 | 34 | 18 | 58 | 38 | 20 | 66 | 50 | 16 |
| GRADE 8 | | | | | | | | | |
| TOTAL BATTERY | 50 | 33 | 17 | 58 | 39 | 19 | 66 | 51 | 15 |
| TOTAL READING | 51 | 37 | 1,4 | 56 | 42 | 14 | 65 | 54 | 11 |
| TOTAL LANGUAGE | 47 | 35 | 12 | 56 | 42 | 14 | 64 | 52 | 12 |
| TOTAL MATH | 52 | 31 | 21 | 59 | 38 | 21 | 66 | 50 | 16 |



Table A21
PERCENTAGE OF STUDENTS TESTED

BY RACIAL/ETHNIC GROUPS CALIFORNIA ACHIEVEMENT TESTS 1980 AND 1981

| | Asi | an | B1a | ick | Hispa | anic | Wh: | lte | To | tal |
|-----------------|-----|------|----------|-----------------|-------|----------|------|------------|-------|-----|
| | N | 7. | <u>N</u> | | N | <u> </u> | N | <u> </u> | N_ | % |
| GRADE 3 | | | | | | | | | | |
| 1 981 | ეა8 | 77 | 688 | 92 | 181 | 68 | 3955 | 9 6 | 51 97 | 93 |
| 1980 | 320 | 79 | 740 | 9 5 | 165 | 66 | 4388 | 96 | 5616 | 94 |
| GRADE 5 | | | | | | | | | | |
| 1981 | 459 | 84 | 820 | 95 | 236 | 81 | 4999 | 98 | 6524 | 96 |
| 1980 | 358 | 81 | 856 | 97 | 216 | 80 | 5775 | 98 | 7214 | 97 |
| CD 1 DT . 0 | | | | | | | ļ | | | |
| GRADE 8 1981 | 387 | 88 Î | 872 | 95 | 243 | 80 | 5710 | 97 | 7234 | 90 |
| 1980 | 359 | 85 | 828 | 94 | 234 | 81 | 5878 | 96 | 7314 | 95 |
| 1960 | 339 | ا ده | 020 |) -1 | 234 | 01 | 30,0 | 70 | /317 | , |
| GRADE 11 | | | | | 1 | | | | • | |
| 1981 | 353 | 75 | 758 | 85 | 248 | 74 | 5981 | 89 | 7350 | 8 |
| 1980 | 338 | 79 | 784 | 80 | 263 | 72 | 6552 | 88 | 7951 | 8 |





Table A22

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SEX FOR FALL 1980 AND 1981 GRADE 3

| | MAI NCE | LE PR | FEM. | ALE PR | TOT NCE | AL Pr |
|--------------------------------|------------|----------|----------|-----------|------------|----------|
| | 1 | | 1 | | 1 100 | |
| TOTAL BATTERY | | | | | | |
| 1 981 | 65 | 76 | 66 | 78 | 65 | 76 |
| 1980 | 63 | 73 | 65 | 76 | 64 | 75 |
| Phonic Analysis | | | | | | |
| 1981 | 56 | 61 | 58 | 65 | 57 | 63 |
| 1980 | 55 | 59 | 57 | 63 | 56 | 61 |
| Structural Analysis | | | | | | |
| 1981 | 61 | 70 | 63 | 73 | 62 | 72 |
| 1 980 | 59 | 67 | 62 | 72 | 61 | 70 |
| Reading Vocabulary | | | | | | |
| 1981 | 61 | 70 | 62 | 72 | 62 | 72 |
| 1980 | 61 | 70 | 62 | 72 | 61 | 70 |
| | | | i. | | | |
| Reading Comprehension 1981 | 60 | 68 | 63 | 73 | 62 | 72 |
| 1980 | . 59 | 67 | 63 | 73 | 61 | 70 |
| | | | | | | |
| TOTAL READING | | 70 | | | | 70 |
| 1981 1980 | 61 60 | 70 68 | 64 63 | 75 73 | 62 61 | 72 70 |
| 1960 | 80 | 00 | 0.5 | 73 | 01 | 70 |
| Spelling | | | | | | |
| 1981 | 58 | 65 | 63 | 73 | 60 | 68 |
| 1980 | 58 | 65 | 63 | 73 | 60 | 68 |
| Language Mechanics | | | | | | |
| 1981 | 65 | 76 | 70 | 83 | 67 | 79 |
| 1 980 | 64 | 75 | 69 | 82 | 66 | 78 |
| Language Expression | | | | | | |
| 1981 | 61 | 70 | 64 | 75 | 62 | 72 |
| 1 980 | 60 | 68 | 64 | 75 | 62 | 72 |
| TOTAL LANGUAGE | | | | | | |
| 1981 | 64 | 75 | 69 | 82 | 66 | 78 |
| 1 980 | 63 | 73 | 68 | 80 | 65 | 76 |
| Math Computation | \ | | | | | |
| 1981 | 65 | 76 | 64 | 75 | 65 | 76 |
| 1980 | 63 | 73 | 62 | 72 | 63 | 73 |
| Wath Canasata and | | | | | | |
| Math Concepts and Applications | | | | | | |
| 1981 | 63 | 73 | 63 | 73 | 63 | 73 |
| 1980 | 63 | 73 | 62 | 72 | 63 | 73 |
| MODAT MARKE | | | | | | |
| TOTAL MATH 1981 | 65 | 76 | . 64 | 75 | 65 | 76 |
| 1980 | 64 | 75 | 63 | 73 | 64 | 75 |
| | | | | | | |
| Reference Skills | 1 | | | | | |
| 1981 1980 | | _ | | | _ | - |
| 1 700 | | - | - | _ | | _ |
| | İ | | | | | |
| NUMBER TESTED 1981 | 2618 | | 2579 | | 51 97 | |
| 1981 | 2871 | | 2745 | | 5616 | |
| 2,000 | 1 20/1 | | 1 2/75 | | 1 2010 | |



Table A23

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SEX FOR FALL 1980 AND 1981: GRADE 5

| | MAI NCE | E PR | FEMA NCE | PR | TOTA NCE | L PR |
|-----------------------|------------|---------|-------------|-----|-------------|---------|
| TOTAL BATTERY | | | | | | |
| 1981 | 66 | 78 | 68 | 80 | 67 | 79 |
| 1980 | 66 | 78 | 67 | 79 | 67 | 79 |
| Phonic Analysis | | | | | | |
| 1981 | _ | - | _ | _ | - | - |
| 1980 | - | - | - | - | - | - |
| Structural Analysis | | | İ | | | |
| 1981 | _ | - | _ | _ | - | _ |
| 1980 | - | - | - | - | - | - |
| Reading Vocabulary | 1 | | | | | |
| 1981 | 65 | 76 | 64 | 75 | 64 | 65 |
| 1980 | 65 | 76 | 64 | 75 | 64 | 75 |
| Reading Comprehension | | | | | | |
| 1981 | 63 | 73 | 64 | 75 | 64 | 75 |
| 1980 | 62 | 72 | 64 | 75 | 63 | 73 |
| TOTAL READING | | | | | | |
| 1 981 | 64 | 75 | 65 | 76 | 64 | 65 |
| 1980 | . 64 | 75 | 64 | 75 | 64 | 65 |
| Spelling | | | | | | |
| 1981 | 59 | 67 | 62 | 72 | 60 | 68 |
| 1980 | 59 | 67 | 62 | 72 | 60 | 68 |
| Language Mechanics | | | | | | |
| 1981 | 64 | 75 | 69 | 82 | 67 | 79 |
| 1980 | 64 | 75 | 68 | 80 | 66 | 78 |
| Language Expression | | | | 00 | | 70 |
| 1981 | 64 | 75 | 69 | 82 | 66 | 78 |
| 1980 | 63 | 73 | 68 | 80 | 66 | 78 |
| TOTAL LANGUAGE | | 70 | | 0.4 | (0) | 90 |
| 1981 | 66 | 78 | 71 | 84 | 68 | 80 |
| 1980 | 65 | 76 | 70 | 83 | 68 | 80 |
| Math Computation | | 70 | | 7.0 | | 7. |
| 1981 | 63 | 73 | 65 | 76 | 64 | 75 |
| 1980 | 61 | 70 | 64 | 75 | 62 | 72 |
| Math Concepts and | | | 1 | | | |
| Applications 1981 | 67 | 79 | 65 | 76 | 66 | 78 |
| 1980 | 67 | 79 | 65 | 76 | 66 | 78 |
| TOTAL MATH | | | | | | |
| 1981 | 66 | 78 | 66 | 78 | 66 | 78 |
| 1980 | 65 | 76 | 65 | 76 | 65 | 76 |
| Reference Skills | | | | | | |
| 1 981 | 65 | 76 | 67 | 79 | 66 | 78 |
| 1980 | 65 | 76 | 66 | 78 | 65 | 76 |
| | 1 | | | | | |
| NUMBER TESTED 1981 | 3277 | | 3247 | | 6524 | |
| 1980 | 3659 | | 3555 | | 7214 | |
| 1 700 | 1 202 | - | دررر ا | | 1/214 | |



Table A24

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SEX FOR FALL 1980 AND 1981 GRADE 8

| | MAI NCE | LE PR | FEM. NCE | ALE PR | TOT. | AL PR |
|-----------------------|------------|----------|-------------|-----------|----------|----------|
| TOTAL BATTERY | | | | | | |
| 1981 | 64 | 75 | 67 | 79 | 66 | 78 |
| 1980 | 64 | 75 | 67 | 79 | 65 | 76 |
| Phonic Analysis | | | | | 1 | |
| 1981 | - | - | - | - | - | - |
| 1980 | - | - | - | - | - | - |
| Structural Analysis | | | | | | |
| 1981 | - | - | - | - | - | - |
| 1 980 | - | - | - | - | - | - |
| Reading Vocabulary | | | | | | |
| 1981 | 66 | 78 | 63 | 73 | 64 | 75 |
| 1980 | 64 | 75 | 63 | 73 | 64 | 75 |
| Reading Comprehension | | | 1 | | | |
| 1981 | 64 | 75 | 66 | 78 | 65 | 76 |
| 1 980 | 63 | 73 | 65 | 76 | . 64 | 75 |
| TOTAL READING | | | 1 | | | |
| 1981 | 66 | 78 | 65 | 76 | 65 | 76 |
| 1980 | 65 | 76 | 65 | 76 | 65 | 76 |
| Spelling | | | | | | |
| 1 981 | 55 | 59 | 61 | 70 | 58 | 65 |
| 1980 | 54 | 58 | 61 | 70 | 57 | 63 |
| Language Mechanics | | | | | | |
| 1 981 | 62 | 72 | 68 | 80 | 65 | 76 |
| 1 980 | 62 | 72 | 69 | 82 | 65 | 76 |
| Language Expression | | | | | | |
| 1 981 | 61 | 70 | 66 | 78 | 63 | 73 |
| 1 980 | 60 | 68 | 66 | 78 | 63 | 73 |
| TOTAL LANGUAGE | | | | | | |
| 1981 | 62 | 72 | 68 | 80 | 65 | 76 |
| 1 980 | 62 | 72 | 69 | 82 | 65 | 76 |
| Math Computation | | | | | | |
| 1981 | 62 | 72 | 66 | 78 · | 64 | 75 |
| 1980 | 59 | 67 | 64 | 75 | 61 | 70 |
| Math Concepts and | | | | | | |
| Applications | | | | 70 | | 70 |
| 1981 1980 | 68 67 | 80 79 | 66 | 78 78 | 67 67 | 79 79 |
| | | | | | | _ |
| TOTAL MATH | | 76 | | 70 | | 70 |
| 1981 1980 | 65 64 | 76 75 | 67 | 79 78 | 66 65 | 78 76 |
| 1 300 | 04 | , , | 00 | 10 | 60 | 70 |
| Reference Skills | 62 | 72 | 66 | 70 | 65 | 76 |
| 1981 1980 | 63 62 | 73 72 | 66 65 | 78 76 | 65 64 | 76 75 |
| 1 300 | 62 | 12 | 65 | 70 | 04 | .13 |
| NIMBED WECKER | - | | | | | |
| NUMBER TESTED 1981 | 3573 | | 3796 | | 7234 | |
| 1980 | 3664 | | 3650 | | 731.4 | |
| | | | | | | |

Table A25

CALIFORNIA ACHIEVEMENT TESTS RESULTS BY SEX FOR FALL 1980 AND 1981 GRADE 11

| | MAI NCE | P <u>R</u> | FEMA NCE | PR | TOTA NCE | AL PR |
|-----------------------|------------|------------|-------------|----------|-------------|----------|
| TOTAL BATTERY | | | | | | |
| 1981 ~ | 62 | 72 | 65 | 76 | 64 | 75 |
| 1980 | 62 | 72 | 64 | 75 | 63 | 73 |
| Phonic Analysis | | | | | | |
| 1981 | 1 - | - | Į – | - | 1 - | - |
| 1 980 | - | - | _ | - | - | - |
| Structural Analysis | | | | | | |
| 1981 | - | - | i - | _ | _ | - |
| 1980 | _ | - | - | | - | - |
| Reading Vocabulary | | | | | | |
| 1981 | 61 | 70 | 62 | 72 | 62 | 72 |
| 1980 | 61 | 70 | 61 | 70 | 61 | 70 |
| Reading Comprehension | | | | | | |
| 1981 | 61 | 70 | 63 | 73 | 62 | 72 |
| 1980 | 61 | 70 | 62 | 72 | 62 | 72 |
| TOTAL READING | | | | | | |
| 1981 | 62 | 72 | 63 | 73 | 63 | 73 |
| 1980 | 62 | 72 | 62 | 72 | 62 | 72 |
| Spelling | Ì | | 1 | | | |
| 1981 | 53 | 56 | 61 | 70 | 57 | 63 |
| 1980 | 54 | 58 | 61 | 70 | 57 | 63 |
| Language Mechanics | | | | | | |
| 1981 | 58 | 65 | 65 | 76 | 62 | 72 |
| 1 980 | 58 | 65 | 64 | 75 | 61 | 70 |
| Language Expression | | | | | | _ |
| 1981 | 60 | 68 | 64 | 75 | 62 | 72 |
| 1980 | 59 | 67 | 63 | 73 | 61 | 70 |
| TOTAL LANGUAGE | | | | | | |
| 1981 | 60 | 68 | 66 | 78 | 63 | 73 |
| 1980 | - 59 | 67 | 65 | 76 | 62 | 72 |
| Math Computation | | _ | | | | |
| 1981 | 60 | 68 | 61 | 70 | 61 | 70 |
| 1980 | 60 | 68 | 60 | 68 | 60 | 68 |
| Math Concepts and | | | | | 1 | |
| Applications | 1 | | | 70 | - | 76 |
| 1981 1980 | 65 65 | 76 76 | 62 62 | 72 72 | 64 63 | 75 73 |
| | | - | | | | |
| TOTAL MATH | 62 | 72 | 62 | 72 | 63 | 73 |
| 1981 | 63 63 | 73 73 | 62 | 72 72 | 62 | 73 72 |
| 1980 | 03 | 13 | 62 | 12 | 02 | 12 |
| Reference Skills | 61 | 70 | 63 | 73 | 62 | 72 |
| 1981 | | 70 70 | 63 | 73 73 | 62 | 72 |
| 1980 | 61 | 70 | 63 | , , | 02 | 12 |
| Whynan macman | | | | | | |
| NUMBER TESTED 1981 | 3612 | | 3738 | | 7350 | |
| 1980 | 3 9 3 6 | | 4015 | | 7951 | |



APPENDIX B
TECHNICAL TESTING TERMS

The following section provides a reference for the technical testing terms used throughout this report. The terms are defined; their uses are stated; and precautions about their interpretation are provided. The terms are listed in alphabetical order.

CRITERION-REFERENCED TEST (CRT)

Definition

A test based on specific learning objectives (or teaching of jectives), usually within a narrow range of subject matter or skills. The tests are designed to measure the knowledge or skills the student has attained. The Maryland Functional Reading Test (MFRT) is an example of a CRT.

Use

CRTs provide information about the extent to which the student has attained the learning objective(s).

Precaution(s)

- 1. CRTs are often designed so a student can answer all or almost all of the questions correctly or incorrectly depending on the extent to which the student has attained the skills being measured. They are not designed to yield information about different levels of achievement and, therefore, cannot usually be used to rank students on specific skills.
- To be useful measures of specific skills, CRTs must have a sufficient number of questions measuring each particular skill included on the test. Although what is "sufficient" is not a fixed number, there should, in most cases, be at least five questions which measure a skill. A test purporting to be a CRT which has fewer than five questions per skill should be viewed with skepticism.

GRADE EQUIVALENT SCORES (GE)

Definition

The grade equivalent of a given raw score on any test estimates the grade level at which the typical pupil achieves this raw score. The digit(s) to the left of the decimal point represent the grade; the digit to the right



of the decimal point represents the month within the grade according to the following table:

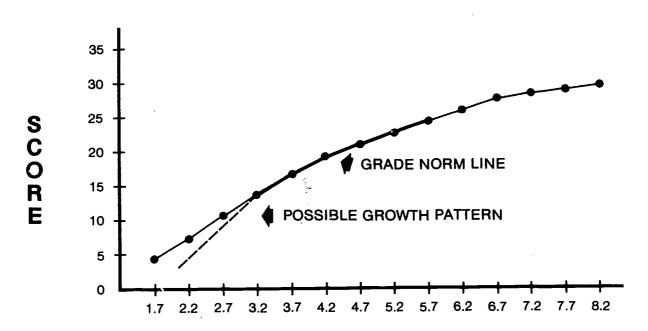
| Number | Month |
|--------|-------------|
| 0 | September |
| 1 | October |
| 2 | November |
| 3 | December |
| 4 | January |
| 5 | February |
| 6 | March |
| 7 | Apri 1 |
| 8 | Ma y |
| 9 | June-August |

An example of how a test publisher might derive grade equivalents can be useful in understanding GE. The example presented below represents the best methodology currently in use. Many tests are normed with fewer samples.

If the publisher is norming a fourth grade test, he will test a representative sample in Grades 3, 4, and 5. In each grade, the sample, or two comparable samples, will be tested in the fall (November) and the spring (April). Thus, the grade levels being tested as 3.2, 3.7, 4.2, 4.7, 5.2, and 5.7. (Often publishers test only once a year.)

The average raw test score for the students in each group is computed and plotted on a graph similar to the one below. The mean scores are indicated by "." on the graph. All other grade-and-month values are estimated by interpolation between the means and extrapolation beyond the means. The GEs beyond the grade range of students in the norming sample should be regarded as no better than rough estimates.

Figure B1



GRADE EQUIVALENT



Use

GEs provide a familiar referent for test scores.

Precautions

- 1. The grade equivalent score does <u>not</u> indicate the grade level of work that a student can perform. It simply estimates the grade level of the typical student in the norming sample achieving a given raw score. For example, suppose a fourth grade student has a score with a grade equivalent of 5.4 on a fourth grade test. This does not mean that a fourth grade student can do work which is done in January in the fifth grade. It simply estimates that this student did as well on a fourth grade test as the typical student in January of the fifth grade. However, remember that if the norming sample for the fourth grade test did not include any fifth grade students, this estimate is very tentative.
- 2. Grade equivalent scores should not be added and subtracted, because they are not an equal distance apart at all points. They are developed under an assumption that learning occurs equally during the school year. In fact, students tend to learn more at different times in the year. From a strict statistical point of view, this lack of equal score intervals means that mean GE scores should not be computed. However, if the GE scores are converted to Normal Curve Equivalent scores which do have this equal interval quality, the mean score computed from the converted scores is generally very close to that computed from the GEs, especially if the grade equivalents represent a wide range of possible scores.
- 3. The attempt to build a scale based on the assumption of equal learning cited in Number 2 above results in differential GE gains for raw score changes. What occurs is that a one raw score point change may cause a one-month change in GE at one place in the norm table and a five-month gain elsewhere. The largest changes in GE generally happen in the extremes of score distribution.

An example of the unequal GE differences between raw scores is shown below. These scores are taken from the ITBS seventh grade spelling test.

| Grade | Test | Raw Score | Grade Equivalent | Difference in Grade Equiv. |
|-------|----------|-----------|------------------|----------------------------|
| 7 | Spelling | 7 | 3.5 | |
| 7 | - | 8 | 4.0 | •5 |
| 7 | | 9 | 4.4 | |
| 7 | Spelling | 25 | 8.4 | |
| 7 | | 26 | 8.5 | .1 |
| 7 | | 27 | 8.7 | .2 |
| | | | | |



4. Grade equivalents generally have a wider range at higher grade levels. This leads to the situation that a student who has the same PR in Grades 3 and 5 will probably be further above (or below) the median in GE terms in Grade 5. This means that if he/she has a high PR in both grades, the gain in GE terms will be more than two years. If he/she has a low PR, the gain will be less than two GEs. Therefore, if a constant expected GE gain were established for all students, it would be too high for some and too low for others. The example below from ITBS norms demonstrates this problem.

| PR | Grade 3 | Grade 5 | Grade Equivalent Change |
|----|---------|-------------|-------------------------|
| | | | • |
| 90 | 5.1 | 7. 5 | 2.4 |
| 50 | 3.6 | 5.6 | 2.0 |
| 10 | 2.6 | 4.1 | 1.5 |
| } | _ | | |

- 5. Because a grade equivalent score represents the performance of a typical student at a given grade level, approximately half of the students in a nationwide sample would be expected to score below grade level.
- 6. Grade equivalents should not be compared across subject areas as they have different meanings. For example, mathematics is more grade-related than reading; and, therefore, the GEs are generally less spread out for math than for reading.
- 7. Grade equivalents should not be compared across different tests because they may have different meanings due to different norming samples.

INTERQUARTILE RANGE

Definition

Quartiles are scores (points in a distribution) that divide a score distribution into quarters. Twenty-five percent of the scores are at or below the first quartile (Q1), 50 percent are at or below the second quartile (Q2, which is also the median), and 75 percent are at or below the third quartile (Q3). The interquartile range includes the band of scores that lies between Q1 and Q3, or the middle 50 percent of the scores.



Use

By eliminating the effect of the lowest and highest quarters of the distribution, the interquartile range provides a measure of how the typical students in a group performed.

Precaution(s)

Eliminating the extreme scores may be removing important information such as the location of pockets of students needing compensatory or gifted programs. If the median is close to either quartile, it could indicate a large number of students at that end of the distribution who might require such services.

MEAN

Definition

The sum of the scores divided by the number of scores.

Use

The mean is used as a measure of the performance of the "typical" student in a group.

Precaution

- 1. In a small group, the mean can be overly influenced by a few extreme scores. Thus, if a few scores in a distribution are very low but most are quite high, the mean will be depressed by the low scores more than the median. In groups where there are a few extremely low scores, the mean will, therefore, be lower than the median. Therefore, it is often useful to compare the mean with the median.
- 2. Use of the mean provides no information about the spread of scores.

MEDIAN

Definition

The score that divides a test score distribution in half is known as the median. Half of the scores are above the median, half are below. The median is the score that has a percentile rank of 50.

Use

The median is used as a measure of the performance of the "typical" student in a group.

Precaution(s)

- 1. See Precaution 1 for "mean."
- 2. Use of the median provides no information about the spread of scores.



Definition

A normal curve is a distribution of scores or values which, in graphic form, is bell-shaped as shown in Figure A.2. In a normal curve distribution, the mean and the median are at the same point. The majority of the scores are clustered around the mean/median. Sixty-eight percent of the scores are within one standard deviation of the mean/median, and 95 percent are within two standard deviations. Scores which are more than three standard deviations from the mean/median are rather rare, occurring less than 1 percent of the time.

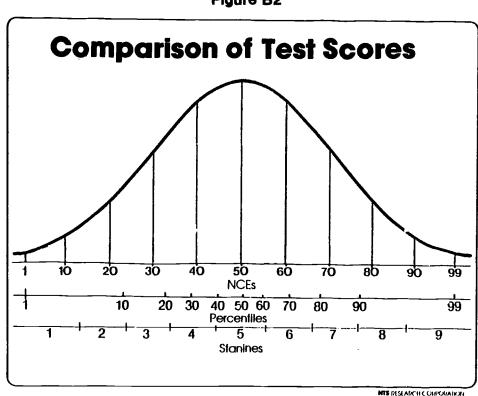


Figure B2

Use

Because of its well-documented statistical properties, the normal curve distribution is often used in reporting test scores as an aid in interpreting scores of groups or individuals.

Precautions

The normal curve distribution is a statistical or mathematical ideal. It is not a graphic description of what a particular distribution should be; distributions which do not conform to the normal curve are not "abnormal." Many variables can affect the distribution of a particular set of scores: test content, difficulty of the test items, suitability of the test for the group to which it is administered.



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NORMAL CURVE EQUIVALENT SCORES (NCE)

Definition

NCEs divide the normal distribution into 99 segments, units, or scores (Figure A.2). Scores range from 1-99, with a mean/median of 50. NCEs can be related to percentile ranks as shown in the comparative scales in Figure A.2.

Uses

- 1. NCEs can be subjected to arithmetic operations. Therefore, mean NCEs can be computed, and differences in NCEs can be compared at all points in the score distribution. 1
- 2. NCEs can be used in analyses of group data (for reasons above). In addition, NCEs are scaled to reveal small changes, something which stanine scores will not do consistently because of the large score range at each stanine point.

Precaution(s)

- 1. Use of NCEs for evaluating individualized performance is to be done with caution. A change of five NCE units on a test score is within the error range for individuals on most standardized tests. However, since NCEs give a false sense of precision—and hence of security—the careless test user could consider such a change meaningful.
- 2. NCEs are difficult to interpret when presented alone. After an analysis has been performed on the basis of NCEs, results are often converted to some more readily understandable scale like percentile ranks.

NORM-REFERENCED TEST (NRT)

Definition

The NRT is designed to rank students according to the number of test items answered correctly (i.e., according to raw score). Ranking is usually also done in relation to the performance of a norming sample. The California Achievement Tests is an example of an NRT.



¹In a strict statistical sense, it is probably incorrect to subject any test scores to arithmetic operations. However, NCEs, standard scores with an underlying normal distribution, raw scores, and stanines come closer than any other score scales to having equal-interval properties which permit arithmetic operations.

Use

Norm-referenced tests provide information about which students know the most about the content included on the test.

Precaution(s)

- 1. A good NRT is designed to enable between 40 and 70 percent of the examinees to answer any given item correctly. Many items are therefore too difficult for a majority of examinees to get right. This means that most NRTs are not very good tests of what an individual student knows (as opposed to criterion-referenced tests). Rather, they are measures of who knows the most about the test content.
- 2. NRTs often include only one or two questions which measure achievement of a given skill or objective. Information about student performance on a particular objective is, therefore, usually not very reliable.

NORMS

Definition

Statistics that describe the test performance of specified groups, such as students in a given grade, age range, type of community, etc.

Use

Norms provide a way of relating raw scores to a more meaningful score scale, such as percentile ranks, stanines, grade equivalents, or a standard score, so that it can be determined how a student performed relative to a "representative" sample of students similar in some way.

Precaution(s)

1. Norming samples cannot be perfectly representative of a large group of students. For most major standardized tests, publishers use sophisticated sampling procedures to determine the norming sample. However, there will always be a small error factor. This means that caution must be used when comparing the scores from two different tests or even from two levels of the same test because the levels may not have used the same group of students. The following is an example of what might happen because of this. If the students in the norming sample for Test A are brighter than those in the sample for Test B, the norms for the two tests will not be equivalent. A student who then takes both tests will be likely to attain a lower percentile rank on Test A because he/she is being compared with a brighter group of students on a test which has "more difficult" norms.



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- 2. Test publishers often provide norms for different times of the year such as fall, winter, and spring. However, they may not have used a norming sample at all of these times, which means that some of the norms are estimates. A test manual should be consulted to determine when a given test was normed. Estimated norms for any other time of year should be viewed with caution.
- 3. Test norms are not necessarily derived every year, and therefore some norms may be several years old. However, it is common practice to compare current student performance on a given test with the performance of the national norming sample. Caution must therefore be exercised in interpreting the meaning of an individual's status. For example, a student who took a test in 1978 and who achieved a percentile rank of 60 probably did not score higher than 60 percent of the students taking the test in 1978. Rather, the individual scored higher than 60 percent of the students in the norming sample who took the test in the past, for example in 1970.
- 4. The above considerations may weaken the usefulness of older norms. If changes have occurred in curricula, current students may be better prepared in some skills or subjects than were students in the norming sample, less well prepared, or simply differently prepared. Thus, comparisons of percentile ranks across years may be clouded by changing curricula.
- 5. Norms are derived so that half of the representative group is expected to be below average. This means that half of the group will be below grade level, below a percentile rank of 50 and below the mean. Therefore, it is extremely difficult to have all of the students in any large group perform above the average.

PERCENTILE RANK (PK)

Definition

The percentile rank (PR) expresses the percentage of students in the norming sample who scored at or below a given score. For example, if a raw score of 30 has a percentile rank of 78, then 78 percent of the students in the norming sample scored at or below 30 items correct.

Use

PRs provide easily interpretable information about how a given student's performance on a test compares with the performance of students in the norming sample.

Precaution(s)

1. PRs should not be added nor subtracted because they are not an equal distance apart at all points. For example, Figure 3.2 clearly shows that an increase of 10 points between percentile ranks 45 and 55 is not the same distance as an increase of 10 points between percentile ranks 85 and 95. A person would have to show a larger amount of improvement to achieve the second increase.



- 2. On a test of fewer than 100 questions, it is not possible for every whole number of the percentile rank scale to have an associated raw score. Therefore, in such circumstances, a one-point increase in raw score can cause an increase of several percentile rank units. What might appear to be substantial increase on the percentile rank scale is really only an increase of one additional question correct. This caveat applies to virtually all tests in standardized batteries.
- 3. Percentile ranks should not be confused with percent of correct answers (raw scores). They have completely different meanings.

RAW SCORE

Definition

The number of questions or test items answered correctly

Use

Raw scores can be used to report the number of questions answered correctly.

Precaution(s)

- 1. A raw score has no meaning other than the number of items answered correctly. It provides no interpretative information.
- 2. Raw scores can be quite misleading when reported by themselves because the meaning of raw scores differs from test to test. For example, if one 50-item test is easy and one 50-item test is difficult, a raw score of 30 on the difficult test might represent better performance than a raw score of 45 on the easier test.
- 3. Subjecting raw scores to arithmetic operations (e.g. addition, etc.) is a questionable procedure. Cenerally, raw scores do not have the equal interval property required for these operations. This is because the same raw score can be obtained by different students who get different combinations of items correct. These items will most likely vary in their level of difficulty. Thus, identical raw scores will possibly represent differential levels of achievement.

RELIABILITY

Definition

Reliability refers to the extent to which a test is consistent in what it measures. There are three major types of reliability, all expressed as a coefficient ranging from 0 (complete lack of consistency) to 1 (perfect consistency).



- 1. Internal consistency is the degree to which all the questions on a test measure the same thing. For example, a mathematics test that measures only addition of fractions will probably have a higher internal consistency coefficient than one that measures several different mathematical operations. This would be especially important for achievement tests that measure specific skills.
- 2. Stability is the degree to which a person will achieve the same score on a test that is taken twice within a time period of anything from a few days to a year or two. This is important in an instrument which measures a trait like natural ability, which is not expected to change over time.
- 3. Equivalence is the degree to which a person will achieve the same score on two forms of the same test. This is important for any test in which two forms are to be used interchangeably.

Use

Reliability is a measure of the quality of a test.

Precaution(s)

The type of reliability appropriate for a given testing situation should be used.

SCALE SCORE (SS)

Definition

Scale Scores range from 0 to 999 and provide a link between all levels of the California Achievement Tests.

Uses

- 1. Scale scores can be subjected to arithmetic operations like Normal Curve Equivalent scores. Therefore, means can be computed and differences in SSs can be compared meaningfully.
- 2. Scale scores provide a way of comparing scores on different levels of the California Achievement Tests and, therefore, provide a way of measuring growth.
- 3. The capability of comparing results from different test levels also means that scale scores help to make out-of-level testing possible. This testing procedure allows for a student to take a test for a grade other than his own and still have results (percentile ranks and stanines) based on norms for his/her grade.



Precaution

- 1. Scale scores should not be used to compare scores in different subject areas. They were not developed so that equivalent scores in two subject areas would indicate equivalent levels of achievement. Any comparison of scale scores should be done within subject areas.
- 2. There are not "typical" scale scores for each grade or test level. In fact, the ranges of SSs in the various levels overlap considerably.

STANDARD DEVIATION (SD)

Definition

Standard Deviation (SD) is a measure of the dispersion in a set of scores. The closer the scores cluster around the mean, the smaller the SD will be.

Use

As a measure of the spread in a set of scores, the SD can be used to assist in determining the degree of importance of score differences. For example, a difference of 2 points would probably not have much meaning if the SD were 20 but could be quite important if the SD were 0.5.

Precaution(s)

None

STANDARD ERROR OF MEASUREMENT (SEM)

Definition

The SEM is an estimate of the magnitude of error in a test score. Possible causes of error in scores include lucky or unlucky guesses, a student's not feeling well or failing to follow directions, the fact that test questions may be only a sample of those that could be asked, sloppiness, laziness, etc.

Uses

The SEM provides a way of determining the possible fluctuation in test scores which would be obtained if an individual were to take the same test a number of times. It indicates how far a particular obtained score might deviate from the individual's "true" score (the score the individual would obtain if there were no error in the test). It is usually assumed that the scores obtained from repeated testing would conform to the normal curve



distribution. Therefore, in practice, it is assumed that there is a probability of 68:100 that the "true" score is within one SEM of the obtained score and that there is a probability of 95:100 that the obtained score is within two SEMs of the obtained score.

2. The SEM can be used in significance testing to provide a way of determining whether differences in test scores or group mean scores are statistically significant (that they vary more than can be reasonably attributed to testing error).

Precaution(s)

None .

STANINE

Definition

A stanine is one of the scores of a nine-point division of the normal distribution. Stanine scores range from 1 to 9 with a mean and median of 5. As shown in Figure A.2, each stanine has a range of corresponding percentile ranks or raw scores.

Uses

- 1. Stanines can be subjected to arithmetic operations (addition, etc.). Therefore, the mean of distributions can be computed, and differences in stanine scores can be compared at all points in the distribution except, in some cases, at the extreme stanine scores of 1 and 9.
- 2. Stanines do not give a false sense of accuracy of a given score because each stanine covers a range of raw scores. The stanine scale is therefore useful for reporting individuals' scores. Differences in stanines are more likely to represent change beyond that which can be attributed to error than are other kinds of scores.

Precaution(s)

As can be seen in Figure A.2, interpretation of differences in stanine scores is clouded by the range within a given stanine. For example, if an individual's score increases from the top of the Stanine-3 range to the bottom of the Stanine-5 range, it represents less improvement than an increase from the bottom of the Stanine-3 range to the top of the Stanine-4 range. However, on cursory examination, it would seem as if the first increase were the greater.



Definition

A significance test is a statistical procedure used to determine whether two (or more) groups differ on a trait more than could normally be expected if testing error or sampling error were assumed to be the cause of the difference.

Use

Under highly controlled conditions (as in experiments, etc.), tests of statistical significance are used to test hypotheses. When variables cannot be controlled (as in the countywide testing program), the results from such a test are open to question.

Precaution(s)

- 1. Results of significance tests are reported as probability statements. If the reported probability is less than .01, the chance is less than 1:100 that the difference between groups can be attributed to testing error. If the probability is .001, the chance is less than 1:1000 that the difference can be attributed to testing error. However, there is always some chance (1:1000, etc.) that the difference was caused by error.
- 2. When a large number of tests of significance are performed, some differences will turn out to be statistically significant by chance alone. That is, since there is always some chance that a difference can be caused by error (1:20, 1:100, 1:1000, etc.), a certain number of significant differences can be expected to occur because of error. There is no way to determine whether a particular statistically significant difference was or was not caused by error. Again, only a probability can be determined.
- 3. When tests of significance are used to evaluate the difference of means, the larger the group the smaller the difference in means needs to be for statistical significance. The smaller the group, the larger the difference must be. For example, a difference of only 1-2 months on the grade equivalent scale, or a fraction of a raw-score point, will be statistically significant for groups of several thousand students. In contrast, a difference of as much as six months may be required for significance with a group of one hundred students. Because many of the comparisons in this report involve very large groups, no significant tests of differences and means were performed. While small differences would have been statistically significant, they would not have been educationally meaningful.

VALIDITY

Definition

Validity is the extent to which a test does the job for which it is used. There are three major types of validity that a test may possess.

- Content validity is most important for achievement tests. This
 requires that a test contain questions that adequately reflect the
 content the test is supposed to measure.
- 2. Criterion-related validity is most important for placement tests, college admissions tests, or tests on which employment decisions are based. Performance on the test must be highly correlated with performance in the program, success in college, or success on the job for which the test is a screening instrument.
- 3. Construct validity is most important in psychological instruments. Tests of ability are examples of such instruments. Construct validity requires that the test adequately discriminate between people who do or do not have a particular trait.

Use

Validity is a measure or concept that helps one evaluate the quality of a test.

Precaution(s)

The type of validity appropriate for a given testing situation should be used.



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